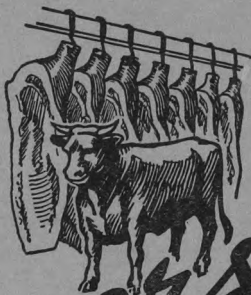


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Producers GRADING GUIDE



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PUBLISHED BY

The
NORTH-WEST LINE ELEVATORS
Association

1968-69

TO CALCULATE THE NUMBER OF BUSHEL OF GRAIN IN A BIN

1. Determine the number of cubic feet in the bin.
 - (a) For square or rectangular bins, multiply the length by the width by the depth.
 - (b) For round bins, multiply the radius by the radius by 3.14 by the depth (the radius is one-half the diameter).
2. Convert cubic feet to measured bushels by multiplying the number of cubic feet by the factor 0.78.
3. Convert measured bushels to bushels by weight, by multiplying the number of measured bushels by the actual weight per measured bushel of the grain, and divide by the legal weight per measured bushel (wheat, 60 lbs.; barley, 48 lbs.; oats, 34 lbs.; flax, 56 lbs.; and rye, 56 lbs.)

Example (a)—A rectangular bin 8' by 16' contains wheat weighing 65 lbs. to the bushel to a depth of 6 feet. How many bushels by weight are in the bin?

Number of cubic feet $8 \times 16 \times 6 = 768$.

Number of measured bushels $768 \times 0.78 = 599.04$

Number of bus. by weight $599.04 \times 65 / 60 = 648.96$

Example (b)—A round bin 16 ft. in diameter is filled with wheat weighing 65 lbs. to the bushel to a depth of 6 feet. How many bushels by weight are in the bin?

Number of cubic feet..... $8 \times 8 \times 3.14 \times 6 = 1205.76$

Number of measured bushels $1205.76 \times 0.78 = 940.49$

Number of bus. by weight $= 940.49 \times 65 / 60 = 1018.87$

Grading Of Farm Products

Government grading of Canadian farm products is essentially an aid to orderly marketing and efficient buying and selling. The confidence created by this system of grading has been an important factor in expanding both domestic and export demand for agricultural products.

The grading and inspection of farm products arose from the desire and need of producers, dealers, and consumers for a uniform "yardstick" with which to measure important variations in quality. The producer is interested in obtaining for his product, a price commensurate with its quality. The processor and distributor need a quality gauge to facilitate buying and selling, and to establish fair prices on a product quality basis. The consumer, on the other hand, wants assurance that he is obtaining a product of a quality in line with the price paid.

These needs, translated into legislative action, have resulted in government grading standards for practically every article of produce sold by farmers. While this information is available free upon request, the farmer must secure and study a large number of federal acts to become familiar with the grade standards of the products he has for sale. It is hoped that this book will make it a great deal easier for farmers to acquaint themselves with the official grade standards of the major products of Western Canadian farms.

The member companies of The North-West Line Elevators Association believe the farmer has a right to know, and should know, the essential details as to the manner of grading and marketing his own products. We believe this Producers Grading Guide will prove useful and valuable to practical farmers, grain buyers, and others in the Prairie Provinces.

The North-West Line Elevators Association.

Prepared by
LINE ELEVATORS FARM SERVICE

Revised August 1968.

DISCARD ALL PREVIOUS ISSUES

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Producers Grading Guide

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WESTERN CANADA GRAIN GRADES

DEFINITIONS

The Canada Grain Act is administered by the Board of Grain Commissioners of the Dominion Department of Agriculture.

Statutory Grades. The Statutory grades of grain are defined in the Canada Grain Act by statute or act of Parliament.

Commercial Grades. The Commercial grades of grain are set up each year by the Western Committee on Grain Standards.

"Off" Grades. The "off" grades include all grain which for various reasons will not meet the requirements of the Statutory or Commercial grades. Grain is graded into the "off" grades for excessive moisture or foreign odors, for heated, bin burnt, musty, frosted, sprouted, smutty or cracked kernels; and for admixtures of other grains or for foreign material such as gravel, Ragweed, Tartarian Buckwheat, etc.

GRADING FACTORS

With the exception of weight per measured bushel, moisture content, and purity, grain is evaluated for grading mainly on a system of visual inspection.

Weight per Measured Bushel is an indication of the plumpness and milling value of the grain, i.e.; the amount of flour that can be made from a bushel of wheat.

Variety. Because of their inherent qualities certain varieties are not permitted into the top grades of their respective classes.

Hard Vitreous Kernels (Wheat only). The percentage of hard vitreous kernels is an indication of the quality and consequently the blending value for breadmaking and macaroni quality of common and durum wheat respectively. In other words, piebald and starchy kernels cause wheat to be degraded according to the percentage given in the grade definitions.

Soundness. "The standard of quality," as it is designated in the grade definitions, is affected by **disease** (Smut, Smudge or Black Point), **weather** (excessive moisture, sprouted, frosted, bleached or improperly ripened), **storage** (heated, musty or bin burnt,) and **mechanical damage** (cracked, broken or peeled).

Purity. Impurities which can be easily removed in cleaning are classed as dockage and expressed in percentage, i.e.; small seeds, broken kernels, trash. Grain containing impurities or mixtures that can be readily cleaned out and are of value, are designated M.S. (Machine Separation). Impurities which cannot be cleaned out cause the grain to be degraded, rejected or placed into the mixed grain grades depending on the type and amount present.

Official Sample Size. Where impurities in any of the "off" grades are designated by count, the official sample size is based on 500 grams or 17½ ounces.

STATUTORY GRADES

RED SPRING WHEAT	Min. Wgt. Per Bus.	STANDARD OF QUALITY		MAXIMUM LIMITS OF FOREIGN MATERIAL			
		VARIETY	Minimum % Hard Vitreous Kernels	SOUNDNESS		Foreign Material other than Wheat	
				Matter other than Cereal Grains	Total including Cereal Grains	Wheats of other Classes or Varieties	Total including Durum
1 Hard	62	Marquis or equal to Marquis.	80	Sound and well matured.	Free	Free	Free
1 Northern	60	Marquis or equal to Marquis.	65	Well matured, practically free from damaged kernels.	Practically free	Practically free	About 1%
2 Northern	58	Marquis or equal to Marquis.	50	Reasonably well matured, reasonably free from damaged kernels.	Practically free	About 1%	3%
3 Northern	57	Red Spring Wheat of fair milling quality excluding Garnet.	35	Reasonably well matured, excluded from higher grades on account of lightly frosted, immature or other light damage.	Reasonably free	About 2%	10%
4 Northern	56	Red Spring Wheat excluding Garnet and Club		Reasonably well matured, excluded from higher grades on account of frosted, immature or other damage.	Reasonably free	About 2½%	10%
4 Special	53	Red Spring Wheat, excluding Club		Reasonably well matured, rusted or shrunk but otherwise reasonably sound.	Reasonably free	About 2½%	
GARNET	*	*	*	*	*	*	*
1 C. W.	60	Garnet	75	Well matured, practically free from damaged kernels.	Free	Practically free	5%
2 C. W.	58	Garnet	60	Reasonably well matured, reasonably free from damaged kernels.	Practically free	About 1%	10%
3 C. W.	57	Garnet	35	Reasonably well matured, excluded from higher grades on account of lightly frosted, immature or other light damage.	Practically free	About 2%	15%
4 C. W.	56	Garnet	--	COMMERCIAL GRADES Excluded from higher grades on account of frosted, immature.	Reasonably Free	About 2½%	20%

* Same headings apply.

STATUTORY GRADES

WHITE SPRING WHEAT	Min. Wgt. Per Bus.	STANDARD OF QUALITY			MAXIMUM LIMITS OF FOREIGN MATERIAL			
		VARIETY	Minimum % Hard Vitreous Kernels	SOUNDNESS	Foreign Material other than Wheat		Wheat of other Classes or Varieties	Total including Durum
					Matter other than Cereal Grains	Total including Cereal Grains		
1 C.W.	60	Quality or equal to Quality.	65	Well matured, practically free from damaged kernels.	Practically free	Practically free	About 1%	3%
2 C.W.	58	White Spring Wheat of good milling quality.	50	Reasonably well matured, reasonably free from damaged kernels.	Practically free	About 1%	About 2%	5%
3 C.W.	57	White Spring Wheat of fair milling quality.	25	Reasonably well matured, excluded from higher grades on account of lightly frosted, immature or other light damage.	Reasonably free	About 2%	4%	10%
4 C.W.	54	White Spring Wheat.		Reasonably well matured, excluded from higher grades on account of frosted, immature or other damage.	Reasonably free	3%	5%	20%

NOTES

RED SPRING

Red Spring Wheat otherwise eligible for the grade of No. 1 Manitoba Hard but containing up to 1 per cent of wheat of other classes or varieties including Garnet will be graded No. 1 Manitoba Northern.

Red Spring Wheat otherwise eligible for the grade of No. 1 Manitoba Hard or No. 1 Manitoba Northern but containing more than 1 per cent but not more than 3 per cent of wheat of other classes or varieties (including Garnet) will be graded No. 2 Manitoba Northern.

Red Spring Wheat otherwise eligible for any of the first three grades of Red Spring Wheat, No. 1 Manitoba Hard, No. 1 Manitoba Northern, No. 2 Manitoba Northern, but containing over 3 per cent but not more than 10 per cent of other varieties of Red Spring Wheat (including Garnet) will be graded No. 3 Manitoba Northern.

Red Spring Wheat otherwise eligible for the grades of No. 1 Manitoba Hard, to No. 4 Manitoba Northern but containing over 10 per cent of Garnet will be graded as No. 5 Wheat.

Feed Wheat shall be practically free of small seeds, (for example pigweed, lamb's quarters, etc.) and other material removable through a sieve with $4\frac{1}{2}/64$ " round perforations. Seeds allowed refer to large Seeds such as Wild Buckwheat.

All Rusted or Shrunken Wheat that contains green or frosted kernels will be graded into the regular grades, and NOT into the Special Grades. Wheat weighing less than 49 pounds per bushel will be graded as Feed Wheat.

GARNET

Garnet wheat not eligible for one of the first three grades will be graded into No. 4 Special or the commercial grades of Red Spring Wheat No. 5. No. 6 or Feed Wheat,

STATUTORY GRADES

WINTER WHEAT	Min. Wgt. Per Bus.	STANDARD OF QUALITY			MAXIMUM LIMITS OF FOREIGN MATERIAL		
		VARIETY	Minimum % Hard Vitreous Kernels	SOUNDNESS	Foreign Material other than Wheat		Wheats of other Classes or Varieties
					Matter other than Cereal Grains	Total including Cereal Grains	
1 Alberta Red	62	Any variety of Red Winter Wheat.	60	Well matured, practically free from damaged kernels.	Practically free	About 1%	Durum 5%
2 Alberta	60	Any variety of Winter Wheat.	45	Well matured, practically free from damaged kernels.	Reasonably free	About 2%	About 1% 10%
3 Alberta	57	Any variety of Winter Wheat.	..	Reasonably well matured, but excluded from preceding grades on account of frosted or otherwise damaged kernels.	Reasonably free	About 2½%	About 2% 20%

STATUTORY GRADES

AMBER DURUM	Min. Wgt. Per Bus.	STANDARD OF QUALITY			MAXIMUM LIMITS OF FOREIGN MATERIAL			
		VARIETY	Minimum % Hard Vitreous Kernels	SOUNDNESS	Foreign Material other than Wheat		Wheats of other Classes or Varieties	
					Matter other than Cereal Grains	Total Including Cereal Grains	Red Durum	Total + Red Durum
1 C.W.	62	Mindum or equal to Mindum.	80	Well matured, practically free from damaged kernels.	Practically free	About 1½%		5%
2 C.W.	60	Mindum or equal to Mindum.	65	Well matured, practically free from damaged kernels.	Practically free	About 1%	5%	10%
3 C.W.	58	Mindum or equal to Mindum.	40	Reasonably well matured, reasonably free from damaged kernels.	Practically free	About 2%	10%	15%
4 C.W.	56	Any variety of Amber Durum.	..	Reasonably well matured, but ex- cluded from preceding grades on account of frosted or otherwise dam- aged kernels.	Reasonably free	About 2½%	10%	20%
5 C.W.	54	Any variety of Amber Durum.	..	Frosted or otherwise damaged kernels.	Reasonably free	3%	10%	25%
6 C.W.	51	Any variety of Amber Durum.	..	Excluded from preceding grades on account of damage or light weight.	Reasonably free	3%	10%	30%

Varieties of Durum not equal to Mindum shall be excluded from No. 1 C.W. when in excess of 5%, from No. 2 C.W. when in excess of 10% and from 3 C.W. when in excess of 15%.
RED DURUM — All Red Durum Wheat and any other wheats containing over 10% of Red Durum shall be graded as "Canada Western Red Durum," irrespective of quality.

Amber Durum weighing less than 51 pounds per bushel will grade "Feed Wheat."

COMMERCIAL GRADES

WHEAT	Min. Wgt. Per Bus.	VARIETY	STANDARD OF QUALITY	MAXIMUM LIMITS OF FOREIGN MATERIAL			
				Foreign Material other than Wheat		Wheats of other Classes	
				Matter other than Cereal Grains	Total Including Cereal Grains	Durum	Total Including Durum
No. 5 Wheat	53	Any variety of Red Spring Wheat.	Excluded from higher grades on account of frosted or otherwise damaged kernels.	Reasonably free	3%	5%	15%
No. 6 Wheat	51	Red or White Spring or Winter.	Excluded from higher grades on account of frosted or otherwise damaged kernels.	Reasonably free	3%	6%	---
Feed Wheat	--	Any variety	Too badly damaged for higher grades or on account of light weight.	About 3% Large Seeds Wild Oats Wheat heads singly or in combination Practically free	About 13%	---	---
Extra 4 C.W. Amber Durum	58	Any variety of Amber Durum.	Reasonably well matured, reasonably free from dam- aged kernels. Minimum percent hard vitreous kernels 40%.		About 2%	10%	15%
WINTER WHEAT	*	*	*	*	*	*	*
4 A.W.	56	Any variety of Winter Wheat.	Excluded from the higher grades on account of frosted, shrunken or otherwise damaged kernels.	Reasonably free	About 2½%	About 3%	20%

*Same headings apply as for Wheat.

COMMERCIAL GRADES

SOFT WHITE SPRING WHEAT	Min Wgt. Per Bus.	STANDARD OF QUALITY			MAXIMUM LIMITS OF FOREIGN MATERIAL			
		VARIETY	Minimum Percentage by weight of Sound Kernels	SOUNDNESS	Foreign Material other than Wheat		Wheats of other Classes	
					Matter other than Cereal Grains	Total including Cereal Grains	Durum	Total including Durum
1 C.W.	60	Lemhi or equal to Lemhi.	85	Well matured, practically free from damaged kernels.	Practically free	Reasonably free	1%	3%
2 C.W.	58	Any Soft White Spring of good milling quality.	65	Reasonably well matured, rea- sonably free from damaged kernels.	Practically free	About 1%	About 2%	5%
3 C.W.	57	Any Soft White Spring of fair milling quality.	35	Reasonably well matured, ex- cluded from higher grades on account of lightly frosted, im- mature or other light damage.	Reasonably free	About 2%	4%	10%
4 C.W.	54	Any Soft White Spring.	..	Reasonably well matured, ex- cluded from higher grades on account of frosted, immature or other damage.	Practically free	3%	5%	20%

Garnet Wheat otherwise eligible for the grades of No. 1 C.W., No. 2 C.W., No. 3 C.W., or No. 4 C.W. Garnet but containing over twenty per cent of other varieties of Red Spring Wheat will be graded as No. 5 Wheat.

WINTER WHEAT

All winter wheat below No. 4 Alberta Winter in quality may be graded in the lower grades of Red Spring Wheat, excluding the Special Grades, according to grade requirements.

AMBER DURUM

No. 1 and No. 2 C.W. Amber Durum carrying over 10% and up to 15% of wheats of other classes will be graded as No. 3 C.W. Amber Durum. When carrying up to 20% will be graded No. 4 C.W. Amber Durum. When carrying over 20%, will be graded No. 5 Mixed Wheat.

NOTES

OATS

NOTE—Extra 3 C.W. has the same qualifications as 2 C.W. with the exception of weight per bushel, variety and degree of soundness as to maturity.

BARLEY

SOUND—Shall mean practically free from frosted, free from sprouted or heated kernels, and shall be reasonably free from broken, peeled or otherwise damaged kernels.

SEEDS—BARLEY, OATS OR MIXED GRAIN

All grades shall be practically free of seeds and other material removable through a sieve with $4\frac{1}{2}/64$ " round perforations.

The percentage of tolerance of seeds specified in the grades shall refer to large seeds such as Wild Buckwheat.

"Any large seeds above tolerance in each grade to be treated as dockage, (e.g. 1 Feed Oats containing 4% large seeds, 2% allowed in grade and 2% would be considered as dockage along with any small seeds.)"

STATUTORY GRADES

BARLEY	STANDARD OF QUALITY				MAXIMUM LIMITS OF FOREIGN MATERIAL			
	Min. Wgt. Per Bus.	VARIETY	Minimum Percentage of Variety or Type	SOUNDNESS	Seeds	Wild Oats	Other Grains	Total not to exceed
1 C.W. Six-Row	50	Any six-row variety equal for malting purposes to O.A.C. 21.	95	Sound, well matured, may contain slightly weather-stained kernels.	Practically free	About $\frac{1}{2}\%$	About 1%	About 1%
2 C.W. Six-Row	48	Any six-row variety equal for malting purposes to O.A.C. 21.	90	Sound, reasonably well matured, may contain weather-stained, but not badly discoloured kernels.	Practically free	About $\frac{1}{2}\%$	About $1\frac{1}{2}\%$	About $1\frac{1}{2}\%$
3 C.W. Six-Row	46	Any six-row variety of fair malting quality.	85	Practically sound, reasonably well matured, may contain weather-stained kernels.	About 1%	About 1%	3%	4%
1 C.W. Two-Row	51	Any two-row variety equal for pearling or malting purposes to Canadian Thorpe.	95	Sound, well matured, may contain slightly weather-stained kernels.	Practically free	About $\frac{1}{2}\%$	About 1%	About 1%
2 C.W. Two-Row	49	Any two-row variety equal for pearling or malting purposes to Canadian Thorpe.	90	Sound, reasonably well matured, may contain weather-stained, but not badly discoloured kernels.	Practically free	About $\frac{1}{2}\%$	About $1\frac{1}{2}\%$	About $1\frac{1}{2}\%$

STATUTORY GRADES

BARLEY	STANDARD OF QUALITY				MAXIMUM LIMITS OF FOREIGN MATERIAL			
	Min. Wgt. Per Bus.	VARIETY	Minimum Percentage of Variety or Type	SOUNDNESS	Seeds	Wild Oats	Other Grains	Total not to exceed
No. 1 Feed	46	Any variety or type or combination of varieties or types.	..	Frosted, weather-stained or otherwise damaged, but sweet.	About 2%	4%	4%	4%
No. 2 Feed	43	Any variety or type or combination of varieties or types.	..	Frosted, weather-stained or otherwise damaged, but sweet; may contain 3% heat damage.	3%	10%	10%	10%
No. 3 Feed	..	Any variety or type or combination of varieties or types.	..	Excluded from the preceding grades on account of weight or mixtures, may contain 5% heat damage.	3%	20%	20%	20%

COMMERCIAL GRADE

BARLEY	STANDARD OF QUALITY			MAXIMUM LIMITS OF FOREIGN MATERIAL				
	Min. Wgt. Per Bus.	VARIETY	Minimum Percentage of Variety or Type	SOUNDNESS	Seeds	Wild Oats	Other Grains	Total not to exceed
3 C.W. Two-Row	47	Any two-row variety of good malting quality.	85	Reasonably sound, reason- ably well matured, may be weather stained.	About 1%	About 1%	3%	4%

GRADING OF BARLEY

The following are the only varieties which qualify for the grades specified:

No. 1 C.W. Six-Row	{ O.A.C. 21, Olli, Manchurian, Montcalm, Parkland, Gate- day, Vega, Conquest, Par- agon.
No. 2 C.W. Six-Row	
No. 3 C.W. Six-Row	{ All Six-Row varieties shown above, plus Gartons, Peat- land.
No. 1 C.W. Two-Row	{ Hannchen, Betzes, Canadian Thorpe, Charlottetown 80, Fergus.
No. 2 C.W. Two-Row	
No. 3 C.W. Two-Row	
No. 1 Feed	{ All varieties, including hul- less and black types.
No. 2 Feed	
No. 3 Feed	

Thin and Plump Barley

Grade	Minimum Per Cent PLUMP	Maximum Per Cent THIN
No. 1 C.W. Six-Row	70	4
No. 2 C.W. Six-Row	70	4
No. 3 C.W. Six-Row	60	5
No. 1 C.W. Two-Row	70	4
No. 2 C.W. Two-Row	70	4
No. 3 C.W. Two-Row	60	5

Note re Olli, Vega and Gateway Variety Barley

On Country Shipments, that is in all cases except shipments ex terminal and licensed eastern elevators, Olli, Vega or Gateway barley shall contain not less than 50% of plump kernels and not more than 5% of thin kernels in order to qualify for No. 3 C.W. Six-Row, providing that the sample contains at least 85% of these varieties.

On Shipments ex Terminals and Licensed Eastern Terminals, Olli, Vega or Gateway barley shall contain not less than 55% of plump kernels and not more than 5% of thin kernels in order to qualify for No. 3 C.W. Six-Row.

Plump Barley is barley which remains on top of a 6/64 inch x 3/4-inch slotted sieve.

Thin Barley is barley which passes through a 5/64-inch x 3/4-inch slotted sieve.

RYE

All grades of Rye are required to be commercially free from seeds. No. 5 and No. 6 Buckwheat Sieves are used to remove seeds and broken rye.

SUNFLOWER SEED

The name of the variety (Mennonite, Sunrise or other variety) shall be added to and form part of the grade name for the first three grades specified in the Statutory definition.

PEAS

Peas of any type or variety may be graded according to the "Statutory or Commercial" definitions and the commonly accepted commercial name or description or variety of such peas shall form part of the grade name, providing, however, that the use of the variety name in certifying to a grade of peas shall not imply any guarantee of varietal purity.

STATUTORY GRADES

OATS	Min. Wgt. Per Bus.	STANDARD OF QUALITY		MAXIMUM LIMITS OF FOREIGN MATERIAL			
		VARIETIES	SOUNDNESS	Seeds (see note)	Wild Oats	Other Grains	Total not to exceed
1 C.W.	38	95% White.	Well matured, practically free from damage.	Practically free	About 1%	Practically free	About 1%
2 C.W.	36	90% White.	Well matured, practically free from damage.	Practically free	About 2%	About 2%	3%
Extra 3 C.W.	40	Domestic Oats, any variety.	Reasonably well matured, practically free from damage.	Practically free	About 2%	About 2%	3%
3 C.W.	34	Domestic Oats, any variety.	Reasonably well matured, practically free from damage.	About 1%	4%	4%	6%
Extra 1 Feed	38	Domestic Oats, any variety.	Reasonably well matured, and sound except as to frost.	About 1%	About 2%	6%	6%
1 Feed	34	Domestic Oats, any variety.	Reasonably well matured, but frosted, stained, or otherwise damaged. May contain 2% heat damage.	About 2%	7%	12%	12%
2 Feed	28	Domestic Oats, any variety.	Frosted, immature, stained or otherwise damaged. May contain 3% heat damage.	3%	12%	22%	22%
3 Feed	..	Domestic Oats, any variety.	Light weight, immature, damaged. May contain 5% heat damage.	3%	25%	33%	33%
Mixed Feed	..	Wild Oats; predomina- ting.	Reasonably sound, practically free of Oat Hulls.	About 4% knuckles, wheat heads or seeds	...	49%	49%

OFF-GRADE No. 2 MIXED FEED OATS—No. 2 Mixed Feed Oats shall be composed of not less than 50% of wild oats and containing admixtures that cause exclusion from the grade of Mixed Feed Oats.

STATUTORY GRADES

RYE	Min. Wgt. Per Bus.	SOUNDNESS		Percentage of Ergot after doekage removed	Matter other than Cereal Grains	Cereal Grains other than Wheat	Total Foreign Material Including Wheat
		SOUNDNESS					
1 C.W.	58	Sound	Free	Free	Practically free	Practically free	Practically free
2 C.W.	56	Sound.	Practically free.	Practically free.	About 1½ %	About 1½ %	About 2 %
3 C.W.	54	Reasonably sound. Slightly damaged.	Not more than 1/3 of 1%.	Not more than 1/3 of 1%.	About 1 %	3 %	5 %
4 C.W.	..	Damaged with not more than about 5 % heat damage.	Not more than 1/3 of 1 %	Not more than 1/3 of 1 %	About 2 %	7 %	10 %
C.W. Ergoty Rye	..	Excluded from preceding grades on account of ergot.	Over 1/3 of 1 %.	Over 1/3 of 1 %.	About 2 %	7 %	10 %
C.W. Ergoty and other Grains	..	Excluded from preceding grades on account of admixture of other grains, Rye predominating.	Over 1/3 of 1 %.	Over 1/3 of 1 %.	About 2 %

FLAX SEED	STANDARD OF QUALITY		STANDARD OF CLEANNES
	Min Wgt. Per Bus.	SOUNDNESS	
1 C.W.	51	Matured and sweet. May contain 12½% damaged seeds, including broken seeds.	Clean, commercially pure seed.
2 C.W.	50	Matured and sweet. May contain 25% damaged seeds, including broken seeds.	Clean, commercial pure seed.
3 C.W.	47	May contain 5% heat damage.	Clean, commercially pure seed.
4 C.W.	44	May contain 10% heat damage.	Clean, commercially pure seed.

Flax and Broken Grain — Shall be composed of flax mixed with broken grain of any description that cannot be classified under any established grade. May contain not more than 1% other material.

Flaxseed weighing less than 44 lbs. per bushel will grade Flaxseed, Sample C.W. Account Lightweight.

Inseparable Seeds (other than false flax and/or broken grain — See Page 44.

STATUTORY GRADES

MIXED GRAIN	COMPOSITION	PREDOMINANT KIND OF GRAIN	STANDARD OF QUALITY
1 C.W. Mixed Grain	Wheat and other cereal grains and/or Wild Oats.	Wheat	Excluded from other established grades on account of mixture of other cereal grains. Reasonably clean.
2 C.W. Mixed Grain	Rye and other cereal grains and/or Wild Oats.	Rye	Excluded from other established grades on account of mixture of other cereal grains. Reasonably clean.
3 C.W. Mixed Grain	Barley and other cereal grains and/or Wild Oats.	Barley	Excluded from other established grades on account of mixture of other cereal grains and Wild Oats. Reasonably clean.
4 C.W. Mixed Grain	Oats and other cereal grains and/or Wild Oats.	Oats	Excluded from other established grades on account of mixture of other cereal grains and Wild Oats. Reasonably clean.

COMMERCIAL GRADE — No. 5 Canada Western Mixed Grain shall be composed of mixtures of wheat, oats, barley, rye, and/or wild oats, that do not qualify for any statutory grade of mixed grain on account of the predominating grain comprising less than fifty per cent (50%) of the whole.

STATUTORY GRADES

SUNFLOWER SEED	STANDARD OF QUALITY			STANDARD OF CLEANNES
	Min. Wgt. Per Bus.	MINIMUM PERCENTAGE VARIETY OF TYPE	SOUNDNESS	Maximum Percentage of Cracked and Hulled Seed
1 C.W.	24	85	Well matured, sound, sweet, and uniform in size.	2%
2 C.W.	21	60	Reasonably well matured; sweet; may contain frosted and weather-damaged seed.	5%
3 C.W.	21	60	May be slightly rancid and/or slightly musty.	10%
1 Mixed C.W.	24	Mixed varieties or types.	Well matured; sound; sweet.	2%
2 Mixed C.W.	21	Mixed varieties or types.	Reasonably well matured; sweet; may contain frosted and weather-damaged seed.	5%
3 Mixed C.W.	21	Mixed varieties or types.	May be slightly rancid and/or slightly musty.	10%
Sample C.W.	..	Any variety, mixture of varieties or types.	Any sunflower seed which does not meet the requirements for any of the other established grades.	...

BUCKWHEAT	STANDARD OF QUALITY			Maximum Limits of Foreign Material		
	Min. Wgt. Per Bus.	VARIETY	SOUNDNESS	Matter other than Cereal Grains	Other Cereal Grains	Total not to exceed
1 C.W.	50	Any variety equal to Japanese.	Sound, cool, and sweet.	Practically free	Practically free	Reasonably free
2 C.W.	48	Any variety equal to Japanese.	Reasonably sound, cool, and sweet.	Practically free	About 1%	About 1%
3 C.W.	45	Any variety equal to Japanese.	Reasonably free from damage, cool, and sweet.	About 1%	About 2½%	3%
4 C.W.	42	Any variety.	Excluded from preceding grade on account of damage. May have a ground or grassy smell but not musty	About 2%	5%	5%
Sample C.W.	Any buckwheat which does not meet the requirements for any of the other established grades					

CORN

FLINT CORN—Flint corn shall be corn of any class which consists of 95 per cent of flint corn, and shall be graded according to grade requirements of the standards applicable to such corn if it were not flint corn, and the word "Flint" shall be added to the grade name following the words "Yellow" or "White" or "Mixed".

FLINT AND DENT CORN—Shall be corn of any class which consists of a mixture of the "Flint and Dent" varieties and which contains more than 5 per cent but less than 95 per cent of corn of any of the "Flint" varieties. It shall be graded according to the grade requirements of the Standard applicable to such corn if it were not "Flint and Dent Corn" and the words "Flint and Dent" shall be added to the grade name following the words "Yellow" or "White" or "Mixed."

COLOURS—A slight tinge of red on kernels otherwise yellow shall be classified as Yellow corn. A slight tinge of light straw color or of pink on kernels otherwise white shall be classified as White Corn. White capped yellow kernels shall be classified as Mixed Corn.

CRACKED CORN AND FOREIGN MATERIAL—Shall be kernels and pieces of kernels of corn and all matter other than corn which will pass through a No. 12 sieve, and all matter other than corn remaining on such sieve after screening.

NOTE—No. 12 SIEVE—A Metal Sieve perforated with round holes $12/64$ " in diameter.

STATUTORY GRADES

CORN	STANDARD OF QUALITY					Maximum Limits of Foreign Material			
	Min. Wgt. Per Bus.	VARIETY OR TYPE	Minimum Percentage of variety or Type	SOUNDNESS	Damaged Corn		Cracked Kernels and Other Foreign Material		
					Heat Damaged	Total Damaged			
1 C.W. Yellow	56	Yellow—Dent or semi-dent equal to Falconer	95	Cool and sweet and uniform in size	About 0.1 %	3 %	About 2 %		
2 C.W. Yellow	54	Yellow—Dent or semi-dent equal to Falconer	95	Cool and sweet	About 0.2 %	5 %	3 %		
3 C.W. Yellow	52	Yellow—Dent or semi-dent equal to Falconer	95	Cool and sweet	About 0.5 %	7 %	5 %		
4 C.W. Yellow	50	Yellow—Dent or semi-dent equal to Falconer	95	Cool and sweet	About 1.0 %	10 %	7 %		
5 C.W. Yellow	47	Yellow—Dent or semi-dent equal to Falconer	95	Cool, slight odour but not sour or musty	3.0 %	15 %	12 %		
1 C.W. White	56	White	98	Cool and sweet and uniform in size	About 0.1 %	3 %	About 2 %		
2 C.W. White	54	White	98	Cool and sweet	About 0.2 %	5 %	3 %		
3 C.W. White	52	White	98	Cool and sweet	About 0.5 %	7 %	5 %		
4 C.W. White	50	White	98	Cool and sweet	About 1.0 %	10 %	7 %		
5 C.W. White	47	White	98	Cool, slight odour but not sour or musty	3.0 %	15 %	12 %		
1 C.W. Mixed	56	Mixed as to colours		Cool and sweet and uniform in size	About 0.1 %	3 %	About 2 %		
2 C.W. Mixed	54	Mixed as to colours		Cool and sweet	About 0.2 %	5 %	3 %		
3 C.W. Mixed	52	Mixed as to colours		Cool and sweet	About 0.5 %	7 %	5 %		
4 C.W. Mixed	50	Mixed as to colours		Cool and sweet	About 1.0 %	10 %	7 %		
5 C.W. Mixed	47	Mixed as to colours		Cool, slight odour but not sour or musty	3.0 %	15 %	12 %		

Sample C.W. Any corn which does not meet the requirements for any of the other established grades.

STATUTORY GRADES

		MAXIMUM LIMITS OF:						
SOYBEANS	Minimum Weight per Measured Bushel in Pounds	STANDARD OF QUALITY	Splits	Other Colours or Bi-coloured (See Note)	Heat-damaged and/or Mouldy Kernels of Soybeans and of Other Grains	Total Damaged Kernels	Foreign Material other than Dockage	
							Foreign Material other than Grain	Total Foreign Material including Other Grains
No. 1 Canada Soybeans	58	Cool, of natural odor, well screened, of good natural colour.	10%	2%	Free	2%	About 0. 1%	1%
No. 2 Canada Soybeans	56	Cool, of natural odor, slightly stained.	15%	3%	Practically free	3%	About 0. 3%	2%
No. 3 Canada Soybeans	54	Cool, of natural odor, may be stained but not badly ground-damaged.	20%	5%	About 1%	5%	About 0. 5%	3%
No. 4 Canada Soybeans	51	Cool, may be badly stained or ground-damaged, may be slightly immature and frosted.	30%	10%	About 3%	8%	About 2%	5%
No. 5 Canada Soybeans	48	Cool, may be badly stained or ground-damaged, immature and frosted.	49%	15%	About 5%	15%	About 3%	8%

Sample Canada Soybeans	Shall be soybeans which do not meet the requirements of any of the grades from No. 1 to No. 5 inclusive, or which are musty, sour or heating or hot, or which have any commercially objectionable foreign odor, or which are otherwise of distinctly low quality.
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NOTE—The maximum limits here given for “other colours” shall not apply to the grading of mixed soybeans.

[illegible]

Any peas which do not meet the requirements of other established grades.

COMMERCIAL GRADES									
Extra 4 C.W.	58	85	Fair colour	2 %	0.5 %	5 %	About 1.5 %	About 0.5 %	9 %

COMMERCIAL GRADES OF WESTERN BEANS

BEANS	STANDARD OF QUALITY	FOREIGN MATERIAL		MAXIMUM LIMITS OF:			
		Stones, shale or similar material	Total foreign material	Contrasting classes of beans	Total including damage, foreign material and contrasting classes	Total including splits, damage, foreign material and contrasting classes	Other classes of beans that blend
Extra No. 1 Canada Western Pea Beans.	Well screened and picked, uniform in size, of good natural colour.	Free	0.05%	1%	1%	1%	1%
No. 1 Canada Western Pea Beans.	Well screened and picked, of good natural colour.	0.05%	0.1%	1½%	1½%	2%	3%
No. 2 Canada Western Pea Beans.	Reasonably well screened and picked, of reasonably good colour.	0.1%	0.2%	3%	3%	4%	5%
No. 3 Canada Western Pea Beans.	Fairly well screened and picked, slightly off colour.	0.2%	0.5%	5%	5%	6%	10%
No. 4 Canada Western Pea Beans.	Off colour.	0.5%	1%	8½%	8½%	10%	15%
Sample Canada Western Pea Beans.	Any beans which do not meet the requirements of any of the other established grades.	----	----	----	----	----	----

Beans of any type or variety other than Pea Beans may be graded according to the above definitions and under the same grade names, except that the commonly accepted commercial name or description or variety of such beans shall form part of the grade name in place of the name "Pea Beans" in the above grade names; provided however that the use of a variety name in certifying to a grade of beans shall not imply any guarantee of varietal purity.

In such grades of beans of a type or variety other than Pea Beans in addition to the prescribed maximum limits of other classes of beans that blend, there shall be permitted up to five per cent (5%) in No. 1, ten per cent (10%) in No. 2, twenty per cent (20%) in No. 3, and thirty per cent (30%) in No. 4.

STATUTORY GRADES

MIXED WHEAT	COMPOSITION	Mm. Wgt. Per Bus.	STANDARD OF QUALITY
1 C.W.	Mixtures of wheats of the Red Spring, White Spring and Winter Wheat classes, excluded from grades established for these classes on account of being so mixed—any one of such classes may predominate.	57	Reasonably well matured, may contain lightly frosted immature or other light damage; may contain up to five per cent Durum Wheats; reasonably clean.
2 C.W.	Mixtures of wheats of the Red Spring, White Spring and Winter Wheat classes, excluded from grades established for these classes on account of being so mixed—any one of such classes may predominate.	51	Excluded from the grade of No. 1 C.W. on account of immature and damaged kernels, may contain up to ten per cent of Durum Wheats; reasonably clean.
3 C.W.	Mixtures of wheats of the Red Spring or White Spring or Winter Wheat classes and wheats of the Durum Wheat classes excluded from grades established for the classes of Red Spring, White Spring and Winter Wheats on account of being so mixed; Spring and Winter Wheat classes predominating.	57	Reasonably well matured; may contain lightly frosted, immature or other light damage; may contain up to ten per cent of Red Durum Wheat; reasonably clean.
4 C.W.	Mixtures of wheats of the Red Spring or White Spring or Winter Wheat classes and wheats of the Durum classes excluded from grades established for the classes of Red Spring, White Spring and Winter Wheats on account of being so mixed. Spring and Winter classes predominating.	51	Excluded from the grade of No. 3 C.W. on account of immature and damaged kernels; may contain up to ten per cent of Red Durum Wheat; reasonably clean.
5 C.W.	Mixtures of Amber Durum Wheat and wheats of the Red Spring, White Spring or Winter Wheat classes excluded from grades established for the class of Amber Durum Wheat on account of being so mixed; Amber Durum Wheat predominating.	58	Reasonably well matured; may contain lightly frosted, immature or other light damage, may contain up to ten per cent of Red Durum Wheat; reasonably clean.
6 C.W.	Mixtures of Amber Durum Wheat and wheats of the Red Spring, White Spring or Winter Wheat classes excluded from grades established for the class of Amber Durum Wheat on account of being so mixed; Amber Durum Wheat predominating.	51	Excluded from grade No. 5 C.W. on account of immature and damaged kernels, may contain up to ten per cent of Red Durum Wheat; reasonably clean.

Mixed Wheat weighing less than 51 lbs. per bushel will grade "Feed Wheat".

STATUTORY GRADES

STANDARD OF QUALITY					STANDARD OF CLEANNESS (See Note)
Minimum weight per measured bushel in pounds		CLASS (See Note)	DEGREE OF SOUNDNESS		
Yellow Class	Brown, Oriental and Mixed Classes				
Extra No. 1 Canada Western Yellow	58		Not less than 99.95% yellow.	Well matured; sweet. Of good natural colour. May contain not over 1% damaged seeds, including not over 0.01% heated.	May contain not more than 0.01% of other seeds that are conspicuous and that are not readily separable from yellow mustard seed. Shall be free from conspicuous seeds that are distinctly detri- mental to quality, such as cow cockle.
No. 1 Canada Western	56	55	Not less than 99.5% of one class.	Reasonably well matured; sweet. Of good natural colour. May contain not over 1.5% damaged seeds, including not over 0.1% heated.	May contain not more than 0.3% of other seeds that are conspicuous and that are not readily separable from mustard seed, including not over 0.1% of conspicuous seeds that are distinctly detrimental to quality, such as cow cockle.
No. 2 Canada Western	54	54	Not less than 98% of one class.	Fairly well matured; sweet. May contain not over 3% damaged seeds, including not over 0.2% heated.	May contain not more than 0.5% of other seeds that are conspicuous and that are not readily separable from mustard seed, including not over 0.2% of conspicuous seeds that are distinctly detrimental to quality, such as cow cockle.
No. 3 Canada Western	52	52	Not less than 95% of one class.	May contain not over 5% damaged seeds, including not over 0.5% heated. May have the natural odour associated with low quality seed, but shall not be distinctly sour, musty, rancid, nor have any odour that would indi- cate serious deterioration or contamination.	May contain not more than 0.7% of other seeds that are conspicuous and that are not readily separable from mustard seed, including not over 0.3% of conspicuous seeds that are distinctly detrimental to quality, such as cow cockle.

COMMERCIAL GRADE

DOMESTIC MUSTARD SEED		STANDARD OF QUALITY			Standard of Cleanness (See note)
	Minimum test weight per bushel in pounds	Class (See note)	Degree of Soundness		
No. 4 Canada Western.....	50	Not less than 90% of one class	May contain not over 10% damaged seeds, including not over 1% heated, and not over 3.5% of kernels with distinctly green endosperms and heated in combination. May have the natural odour associated with low quality seed, but shall not have any odour that would indicate serious deterioration or contamination.	May contain not more than 3% of other seeds that are conspicuous and that are not readily separable from mustard seed, including not over 0.3% of conspicuous seeds that are distinctly detrimental to quality, such as Cockle.	

NOTE—1. The CLASS shall refer to Yellow, Brown, or Oriental varieties.

2. The class shall be added to and form part of the grade name, but where seed complies with the requirements of this grade except that there is less than 90 percent of one class, the word "Mixed" shall instead be added to and form part of the grade name. Assignment of mustard seed to this grade shall not imply any guarantee with respect to content of other seeds that blend with mustard seed.
3. Yellow mustard seed may contain not more than 1% wild mustard seed included in the tolerance of conspicuous admixture.

The use of the name of a class of Mustard Seed in certifying to a grade shall not imply any guarantee as to the varietal purity of that class.
Assignment of mustard seed to any of the above grades shall not imply any guarantee with respect to content of other seeds that blend with mustard seed.

RAPESEED

NO. 1 CANADA RAPESEED—Reasonably sound: cool and sweet, may contain not over 3% damaged seeds, including not over 0.1% heated. Of good natural colour. Minimum weight per measured bushel, 52 lbs. May contain not more than 1% conspicuous seeds, to be assessed as dockage.

NO. 2 CANADA RAPESEED—Cool and sweet: may contain not over 10% damaged seeds, including not over 0.2% heated. Minimum weight per measured bushel, 50 lbs. May contain not more than 1.5% conspicuous seeds, to be assessed as dockage.

NO. 3 CANADA RAPESEED — May contain not over 20% damaged seeds, including not over 0.5% heated. May have the natural odour associated with low quality seed, but shall not be distinctly sour, musty, rancid, nor have any odour that would indicate serious deterioration or contamination. Minimum weight per measured bushel, 48 lbs. May contain not more than 2% conspicuous seeds, to be assessed as dockage.

Basic Grade	Conspicuous Over	Admixture Not Over	Grade	Add to Dockage Excess Over
No. 1 Can.	1.0 %	3.5 %	Rej No. 1 Can.	2.5 %
No. 1 Can.	3.5 %	4.0 %	Rej No. 2 Can.	2.5 %
No. 1 Can.	4.0 %	4.5 %	Rej No. 3 Can.	2.5 %
No. 2 Can.	1.5 %	4.0 %	Rej No. 2 Can.	2.5 %
No. 2 Can.	4.0 %	4.5 %	Rej No. 3 Can.	2.5 %
No. 3 Can.	2.0 %	4.5 %	Rej No. 3 Can.	2.5 %

SOUNDNESS

Damaged Seeds — are those seeds that are distinctly shrunken or shrivelled, as from frost; discoloured, as from mold, rime, or excessive weathering; distinctly green seeds or otherwise distinctly damaged seeds.

Broken Seeds — any broken rapeseed that is not assessed as dockage, and that is otherwise sound, is considered as being sound.

Examination of crush strips is a useful guide to the general quality of samples. For example, if the crushed seed contains 5% by count of distinctly (grass) green meats, this is an indication that the damage percentage established by weighted separation should not be less than 5%.

NOTE. — Assignment of rapeseed to any of the above grades shall not imply any guarantee with respect to content of other seeds that blend with rapeseed.

The percentage of "other seeds that are conspicuous and that are not readily separable" shall include weed seeds that do not blend with rapeseed and whole or broken kernels of other grains, when these are not removable by means of appropriate sieves and other cleaning devices.

GRADES OF SCREENINGS

NO. 1 FEED SCREENINGS shall be grain screenings; shall be cool and sweet; shall contain (i) not less than thirty-five per cent broken or shrunken grain or both, (ii) not more than two per cent hare's ear mustard, (iii) not more than one per cent hulls, (iv) not more than three per cent in the aggregate of small weed seeds that can pass through a $4\frac{1}{2}$ /64-inch round-hole sieve, chaff, hulls and dust, (v) not more than six per cent in the aggregate of small weed seeds that can pass through a $4\frac{1}{2}$ /64-inch round-hole sieve, chaff, hulls, dust, wild and domestic mustard seed, ball mustard and rapeseed, (vi) not more than eight per cent wild oats, and (vii) not more than one per cent of the seeds designated as injurious in the Feeds Regulations; and may contain wild buckwheat and not more than ten per cent of other large seeds not designated in this section.

NO. 2 FEED SCREENINGS shall be grain screenings; shall be cool and sweet; shall contain, (i) not more than two per cent hare's ear mustard or wild mustard, (ii) not more than one per cent hulls, (iii) not more than three per cent in the aggregate of small weed seeds that can pass through a $4\frac{1}{2}$ /64-inch round-hole sieve, chaff, hulls and dust, (iv) not more than ten per cent in the aggregate of small weed seeds that can pass through a $4\frac{1}{2}$ /64-inch round-hole sieve, chaff, hulls, dust, wild and domestic mustard seed, ball mustard and rapeseed, (v) not more than forty-nine per cent wild oats, and (vi) not more than one per cent of the seeds designated as injurious in the Feeds Regulations, except that there may be a total of two per cent when the excess over one per cent is hare's ear mustard or wild mustard (*Brassica Kaber*); and may contain wheat scorings.

Provided that

- (a) No. 1 Feed Screenings and No. 2 Feed Screenings shall contain not more than one per cent (1%) seeds or material designated under the Feeding Stuffs Act as injurious to the health of livestock or poultry.
- (b) Small weed seeds shall be those capable of passing through a $4\frac{1}{2}/64$ inch round perforation.

UNCLEANED SCREENINGS shall be grain screenings excluded from the preceding grades or classes because of the content of weed seeds, chaff or dust but containing at least thirty-five per cent (35%) of material which, if separated, would classify as No. 1 Feed Screenings.

REFUSE SCREENINGS shall include all classes of grain screenings excluded from the preceding grades because of the content of weed seeds, chaff or dust.

Kind or Condition

The inspector may include in the grade name notations as to the kind and/or condition of screenings. The "kind" shall refer to screenings of a type that is normally derived from the cleaning of a particular kind of grain, such as from flaxseed. The "condition" shall refer to heated or other type of deterioration, or objectionable odour, when of such degree as to materially affect the quality of the screenings.

OFF-GRADES

Conditioned Grain

All classes of Western wheat that would qualify for grade No. 5 or a higher grade except that the wheat has been damaged in artificial drying shall be graded according to the grade requirements of the statutory or commercial grade that would apply to that wheat if it had not required drying and been damaged in that drying except that there shall be added to and made part of the grade name the words "Rejected — Dried."

Western wheat other than wheat referred to in the above paragraph, and any other grain grown in Western or Eastern Canada, that has, in the opinion of the grain inspector, been damaged in artificial drying shall be graded according to the grade requirements of the Statutory or commercial grade

that would apply to the grain if it had not required drying and been damaged in that drying except that there shall be added to and made part of the grade name the word "Dried".

Scoured or Washed

Any grain that has, in the opinion of the grain inspector, suffered damage in being scoured or washed shall be graded according to the grade requirements of the statutory or commercial grade that would apply to the grain if it had not been damaged in scouring or washing except that there shall be added to and made part of the grade name the word "Scoured" or "Washed."

Wheat or Rye with Objectionable Odour

Any wheat or rye having a distinct commercially objectionable odour such as from stinking smut, chemical or animal taint, or musty condition, shall be graded according to the requirements of the statutory or commercial grade that would otherwise apply to it, except that there shall be added to and made part of the grade name, the words "Rejected — Account Odour."

Rejected

1. Western wheat or rye that contains an excessive inseparable admixture, but not in excess of ten percent, of other cereal grains or foreign material that cannot, except for ergot or stones and like material, readily be removed shall be graded according to the grade requirements of the statutory or commercial grade that would otherwise apply to it except that there shall be added to and made part of the grade name the words "Rejected — Account Admixture."

2. Western oats or barley that contains an excessive inseparable admixture, but not in excess of ten percent, of foreign material that cannot, except for other cereal grains, ergot, stones and like material, readily be removed shall be graded "Rejected — Account Admixture."

3. Western flaxseed and rapeseed that contains an excessive inseparable and conspicuous admixture, but not in excess of two and one-half percent of shrunken or broken grain or weed seeds or any combination thereof, shall be graded according to the requirements of the statutory or commercial grade that would otherwise apply to it except that there shall be added to and made part of the grade name the words "Rejected — Account Admixture."

4. Western grain that contains excessive stones or similar material, but not in excess of two and one-half percent, shall be graded according to the requirements of the statutory or commercial grade that would otherwise apply to it except that there shall be added to and made part of the grade name the words "Rejected — Account Stones."

5. Western wheat or rye that

- (a) contains excessive heated grain, but not in excess of ten percent, or
- (b) contains foreign material, except as specified in this section, that cannot readily be removed, shall be graded according to the requirements of the statutory or commercial grade that would otherwise apply to it except that there shall be added to and made part of the grade name the word "Rejected" and the words to indicate the reason for it being so graded.

6. Western oats or barley that

- (a) has substantially deteriorated, such as being in a musty condition, or has a commercially objectionable odour, or
- (b) contains excessive heated grain, but not in excess of ten per cent, shall be graded "Rejected" and there shall be added to and made part of that grade name words to indicate the reason for it being so graded.

7. Western wheat, rye, oats or barley that contains fireburnt grain, but not in excess of eight per cent, or that has a distinctly fireburnt odour, shall be graded "Rejected — Account Fireburnt."

8. Western wheat that contains an excessive inseparable admixture of ergot, but not in excess of one-half of one percent, that cannot readily be removed shall be graded according to the grade requirements of the statutory or commercial grade that would otherwise apply to it except that there shall be added to and made part of the grade name the words "Rejected — Account Ergot."

SAMPLE

(a) Any western grain containing in excess of $2\frac{1}{2}\%$ of stones, or containing gravel, cinders and/or like material that is normally contained in grain salvaged from wreck in transit, shall be graded "Sample Salvage".

(b) Any western grain that does not qualify for a statutory or commercial grade or an off grade named and defined herein shall be graded "Sample" with the addition of, and made part of such grade name, words to indicate the damage or admixtures.

NO. 2 MIXED FEED OATS

A mixture of western wild oats and other materials that does not qualify for the statutory grade Mixed Feed Oats because of being so mixed shall, if it has the qualities set out below, be graded "No. 2 Mixed Feed Oats".

(a) shall contain at least fifty per cent wild oats;
(b) shall be practically free of all material that passes through a $4\frac{1}{2}/64$ -inch round-hole sieve; and
(c) shall contain in whole, broken, hulled or hull-less form not more than

- (1) five per cent heated kernels,
- (ii) five per cent wild buckwheat,
- (iii) ten per cent wheat heads,
- (iv) five per cent knuckles, straw and chaff,
- (v) ten per cent in the aggregate of wild buckwheat, wheat heads, knuckles, straw and chaff,
- (vi) two and a half per cent flaxseed,
- (vii) one-tenth of one per cent stones, and
- (viii) one-third of one per cent ergot.

SAMPLE FEED GRAIN

Sample Feed Grain shall be composed of mixtures containing cereal grains and other material that, on account of being so mixed, do not qualify for any statutory, commercial or other off grade. Any class of cereal grain may predominate and may be wholly or partially hulled and/or hull-less types. May contain up to the following maximum limits: broken grain, not in excess of fifty per cent (50%); ergot, not in excess of one-third of one per cent (0.33%); heated kernels, not in excess of five per cent (5%); wild oats, not in excess of fifty per cent (50%); large weed seeds, not in excess of three per cent (3%); unthreshed wheat heads, not in excess of ten per cent (10%); knuckles and straw, not in excess of four per cent (4%); total large weed seeds, unthreshed wheat heads, knuckles and straw, not in excess of ten per cent (10%); total wild oats, large weed seeds, unthreshed wheat heads, knuckles and straw, not in excess of fifty per cent (50%); stones, not in excess of one-tenth of one per cent (0.1%); flax-

seed, not in excess of two and one-half per cent (2½%); It shall be practically free of all material that passes through the 4½/64th round hole sieve.

MACHINE SEPARATION FOR CEREAL GRAINS

Dockage may be placed on the bulk of any grain in order that it shall be of the grade assigned, and if such dockage contains a certain proportion of cereal grain, separations shall be made in accordance with the following table of percentages, the term "M.S." (Machine Separation) being used to designate such separation to be made. **Note:** Unofficial Samples submitted for inspection are NOT designated M.S. All readily removable material is included in dockage assessed and the percentage and grade of grain eligible for M.S. on entry to terminal elevator is shown in the remarks on the advice of grade, e.g., "Dockage assessed contains 8% No. 1 Feed Barley."

M.S. FOR FLAX

All grain containing 2½% or over of flaxseed or 3% or over of "Flax and Broken Grain" is graded M.S.

Exception — "Sample (grain) Fireburnt" or "Sample (grain) Salvage" is not graded M.S. for flaxseed.

M.S. FOR OATS

All wheat, rye, flax or rapeseed containing 2½ per cent of oats and over is graded M.S.

M.S. FOR MIXED FEED OATS (WILD OATS)

All wheat containing 3½ per cent of Mixed Feed Oats (Wild Oats) or over is graded M.S.

M.S. FOR BROKEN WHEAT (OR BROKEN RYE)

All wheat or rye containing 5 per cent or over of broken grains and practically free from seeds and other foreign matter (about ¼ of 1 per cent) is graded M.S. for broken wheat or broken rye.

FLAX/RAPESEED M.S.

Flax or Rapeseed containing 2½% and over of cereal grain or mixtures of cereal grains that can be separated by approved equipment for cleaning of samples shall be graded M.S. Wild oats in flax or rapeseed is classed as dockage.

EXCESS SEEDS

Dockage will be placed on all grains to remove **EXCESS** seeds ABOVE grade allowances.

TOUGH AND DAMP GRAIN

All grain that has an excessive moisture, being tough or damp or otherwise unfit for warehousing, shall be classed as "Tough" or "Damp" to the grade to which it otherwise belongs, in accordance with the percentages set out on the following table:

PERCENTAGE OF MOISTURE ALLOWED IN STRAIGHT, TOUGH OR DAMP GRAIN

	Straight Grade	Tough	Damp
Wheat	Up to 14.5%	14.6% to 17%	Over 17%
Oats	Up to 14.0%	14.1% to 17%	Over 17%
Barley	Up to 14.8%	14.9% to 17%	Over 17%
Rye	Up to 14.0%	14.1% to 17%	Over 17%
Flax	Up to 10.5%	10.6% to 13.5%	Over 13.5%
Rapeseed	Up to 10.5%	10.6% to 12.5%	Over 12.5%
Buckwh't	Up to 16.0%	16.1% to 18%	Over 18%
Peas	Up to 16.0%	16.1% to 18%	Over 18%
Beans			Over 20.0%
Mustard	Up to 11.0%	11.1% to 16%	Over 16%
Mixed Grain—Moisture levels based on content of predominant grain.			

Grade	Corn	Soybeans	Sunflower Seed & Safflower Seed
ExtraDry	14% or less		
Straight	14.1% to 15.5%	14% or less	9.5% or less
Tough	15.6% to 17.5%	14.1% to 16%	9.6% to 13.5%
Damp	17.6% to 21.0%	16.1% to 18%	13.6% to 17%
Moist	21.1% to 25.0%	18.1% to 20%	17.1% to 22%
Wet	Over 25%	Over 20%	Over 22%

GRADING FACTORS

The following are some of the grading factors supplementary to the definitions of grades explained elsewhere in this book.

Limits established for grades of Red Spring Wheat, beginning with No. 1 Northern, shall apply to respective grades of Amber Durum, Winter, and White Spring Wheats. The limits applying to No. 3 Northern apply to No. 3 C.W. Amber Durum as well as to Extra No. 4 C.W. Amber Durum.

SPROUTED GRAIN WHEAT

Sprouts (except in grades of Mixed Wheat—see below)

No. 1 Hard and No. 1 — free

No. 2 — maximum 1½%

No. 3 — maximum 5%

No. 4, No. 5 — maximum 8%

No. 6 — maximum 12%

No. 4 Special, — maximum 1½%.

Basic Grade	% of Sprouts		Grade
No. 1	up to	1½%	No. 2
No. 1 or 2	over	1½%	No. 3
No. 1 or 2	over	5%	Rejected No. 2
			Account Sprouted
No. 3	over	5%	No. 4
No. 3	over	8%	Rejected No. 3
			Account Sprouted
No. 4	over	8%	Rejected No. 4
			Account Sprouted
No. 5	over	8%	No. 6
No. 5	over	12%	Rejected No. 5
			Account Sprouted
No. 6	over	12%	Rejected No. 6
			Account Sprouted
No. 4 Special	over 1½%	up to 8%	No. 5
No. 4 Special	over 8%	up to 35%	Rejected No. 5
			account sprouted

MIXED WHEAT

No. 1 C.W., No. 3 C.W., or No. 5 C.W. — maximum 5%			
No. 2 C.W., No. 4 C.W., or No. 6 C.W. — maximum 12%			
Basic Grade	% of Sprouts		Grade
No. 1 C.W.	over	5%	No. 2 C.W.
No. 1 C.W.	over	8%	Rejected No. 1 C.W.
			Account Sprouted
No. 2 C.W.	over	12%	Rejected No. 2 C.W.
			Account Sprouted
No. 3 C.W.	over	5%	No. 4 C.W.
No. 3 C.W.	over	8%	Rejected No. 3 C.W.
			Account Sprouted
No. 4 C.W.	over	12%	Rejected No. 4 C.W.
			Account Sprouted
No. 5 C.W.	over	5%	No. 6 C.W.
No. 5 C.W.	over	8%	Rejected No. 5 C.W.
			Account Sprouted
No. 6 C.W.	over	12%	Rejected No. 6 C.W.
			Account Sprouted

Over 35% grade Feed Wheat

In the judgment of the inspector, tolerance may be reduced when the kernels have long sprouts or rootlets. Tolerances are increased for sprung kernels when the arospire is not visible.

OATS

No. 1 C.W., No. 2 C.W., or No. Extra 3 C.W.—free.
 No. 3 C.W. — Maximum 2%.
 Extra No. 1 Feed — Maximum 5%.
 No. 1 Feed — Maximum 15%.
 No. 2 and 3 Feed — No limit.

BARLEY

No. 1 C.W. — Free.
 No. 2 C.W. — Free.
 No. 3 C.W. — Up to 3%.
 1 Feed—Up to 10%.
 2 Feed—Up to 20%.
 3 Feed—No Limit.

MIXED GRAIN

No limits in the grades of Mixed Grain.

RYE

1 C.W.—Practically free from sprouts.

2 C.W.—May contain up to 2 per cent.

3 C.W.—May contain up to 7 per cent.

4 C.W.—May contain up to 20 per cent.

Over 20 per cent grade Rye, Sample C.W. Account Sprouted.

GRASS GREEN KERNELS IN WHEAT

In some crop years there is a quantity of wheat containing grass green kernels. The following percentages may be used as a guide in grading samples of wheat of this character. These percentages shall apply only to grass green kernels that remain in samples after removal of dockage.

No. 1 Hard—Free.

No. 1— Maximum 0.2 %

No. 2— 1.0 % if balance No. 1.

No. 2— 0.5 % if balance No. 2.

No. 3— 2.5 % if balance No. 1 or No. 2.

No. 3— 1.5 % if balance No. 3.

No. 4— 5.0 % if balance No. 3 or higher.

No. 4— 3.0 % if balance No. 4.

No. 5—14.0 % if balance No. 4 or higher.

No. 5— 6.0 % if balance No. 5.

No. 6—36.0 % if balance No. 5 or higher.

No. 6—14.0 % if balance No. 6.

These tolerances are given as a general guide line and may be increased or reduced in the judgment of the inspector after consideration of the general quality of the sample and the degree to which the kernels are affected.

IMPROVEMENT OF GRADE BY SPECIAL CLEANING —

Grass green kernels may be assessed as additional dockage up to 2.5 %, provided they may be removed by the use of a No. 10 mesh-per-inch wire sieve in a normal sieving operation of the cleaned sample, sieving 250 grams or less at a time. All of the material removed is assessed as dockage if the grade will be improved.

GREEN KERNELS IN OATS

No. 1 C.W. } maximum 1 %

No. 2 C.W. } maximum 3 %

No. Extra 3 C.W. } maximum 10 %

No. 3 C.W. }

Extra No. 1 Feed } maximum 20 %

No. 1 Feed }

No. 2 Feed } may contain 40 % green if
test weight less than 36 lbs.
per bushel; if test weight 36
lbs. per bushel or over, no
limit of green.

Green Tipped — The above percentages may be doubled for green tipped. In separating for green apply the full percentage of green oats plus half the percentage of green tipped. Total not to exceed grade allowance.

Limits of Shrunken and Broken Kernels in All Classes of Wheat

	Shrunken	Broken	Total Combined
No. 1 Hard	3%	3%	3%
No. 1	4%	4%	4%
No. 2	6%	6%	7%
No. 3	10%	10%	11%
No. 4	12%	10%	13%

"Shrunken kernels" are whole kernels that pass through a $4\frac{1}{2}/64"$ x $\frac{1}{2}"$ slotted sieve.

The following grades shall have no limits of shrunken whole kernels: No. 5, No. 6, and No. 4 Special, may all contain up to 10% broken kernels. Feed Wheat may contain up to 15% broken kernels.

When containing in excess of 15% broken kernels, up to 50%, grade "SAMPLE (class of wheat, e.g., "Red Spring") ACCOUNT BROKEN."

When containing in excess of 50% broken kernels, grade "SAMPLE BROKEN AND (class of wheat, e.g., "Sample Broken and Red Spring").

Tolerance in these Sample Grades shall be allowed up to a maximum of 4% other grains, wild oats, wheat heads and some large weed seeds, singly or in combination.

Broken Kernels in Rye

1 C.W. May contain up to 3 per cent.

If 4% clean to grade by adding 1% to Dockage.

2 C.W. May contain up to 5 percent.

If 6 or 7% clean to grade by adding 1 or 2% to Dockage.

3 C.W. and 4 C.W. May contain up to 8 per cent clean to grade if 9% - 12%.

12 per cent and over — Grade Rye Sample C.W. Account Broken.

Peeled and Broken Kernels in Barley

1 C.W. containing over 3% up to 4% of peeled and broken, grade 2 C.W.

1 C.W. or 2 C.W. containing over 4% up to 5%, grade 3 C.W.

1 C.W., 2 C.W., or 3 C.W. containing over 5%, grade No. 1 Feed.

There is no limit of peeled (or hullless) kernels in the feed grades.

Hullless will grade no higher than 1 Feed.

EXCEPTIONS: When shipped out of terminal, mill or eastern elevators, 2 C.W. may contain up to 5% of peeled and broken kernels, and 3 C.W. may contain up to 6% of peeled and broken kernels.

No. 1 Feed may contain not over 15% of broken kernels, 2 Feed may contain not over 30% broken kernels and 3 Feed may contain not over 50% of broken kernels.

NOTE: Over 50% of broken kernels, grade **SAMPLE GRAIN, BROKEN BARLEY and BARLEY** unless eligible for a grade of screenings.

MATTER OTHER THAN CEREAL GRAIN WHEAT

No. 1 Hard	Free
No. 1	5 kernels
No. 2	20 kernels
No. 3	50 kernels
No. 4	80 kernels
No. 5	80 kernels
No. 6	125 kernels
Feed	3.0% (by weight)

When containing over these limits degrade:
No. 1 or No. 2 to No. 3; No. 3 to No. 4; No. 5 to No. 6; No. 6 to Feed .

Beyond these limits up to about 10%, grade Rejected "grade" Account Admixture, with the nature of the Admixture indicated in brackets.

Over 10%, grade No. 1 C.W. Mixed Grain, if the mixture is eligible: otherwise grade Sample "class" Account Admixture, with the nature of the admixture in brackets.

OATS

1 C.W., 2 C.W. and } Practically Free.
Extra 3 C.W.

3 C.W. and
Extra 1 Feed About 1 per cent

1 Feed 2 per cent

2 and 3 Feed 3 per cent

Over 3% up to 10% grade Oats Rejected Account Admixture with the nature of the admixture indicated in brackets.

Over 10% grade Sample Account Admixture with the nature of the admixture indicated in brackets.

BARLEY

1 C.W. and 2 C.W.	}	Practically Free
Six-Row and 1 C.W. and 2 C.W. Two-Row		
3 C.W. Six-Row,	}	About 1 per cent
3 C.W. Two-Row		
1 Feed	}	About 2 per cent
2 Feed		
3 Feed		

Over 3% up to 10% grade Barley Rejected Account Admixture, with the nature of the admixture indicated in brackets.

Over 10% grade Barley, Sample C.W. Account Admixture with the nature of the admixture indicated in brackets. .

RYE

No. 1 C.W. maximum 0.03%.

No. 2 C.W. maximum 0.5%.

No. 3 C.W. maximum 1.0%.

No. 4 C.W. maximum 2.0%.

Over 2% up to 10%, grade Rye, Rejected "Grade" Account Admixture, with the nature of the admixture indicated in brackets.

Over 10%, grade Rye, Sample C.W. Account Admixture, with the nature of the admixture indicated in brackets.

WEED STAIN IN ALL WHEAT

1 Hard	Free
No. 1	maximum 0.1%
No. 2	0.25%
No. 3	1%
No. 4	3%
No. 5	10%
No. 6	Disregard, unless extreme

Degrade No. 1 Hard, No. 1 and No. 2 to No. 3,

Degrade No. 3 to No. 4.

Degrade No. 5 to No. 6.

otherwise grade Rejected "Grade" Account Stained Kernels; when over 10% of extremely stained kernels or the equivalent in varying degrees of stain, grade Sample "Class" Account Stained Kernels.

BLACKPOINT AND/OR SMUDGE IN WHEAT

	Blackpoint and/or smudge	Including penetrated smudge
No. Hard	Max. 0.5 %	Free
No. 1	5 %	Practically free
No. 2	10 %	Maximum 3 kernels per 500 gr.
No. 3	15 %	0.5 %
No. 4	35 %	2 %
No. 5 and No. 6	No specified limits: consider general appearance of grain.	

NOTE: Blackpoint and/or Smudge percentages apply to a moderate degree of discoloration or stain; tolerance will be reduced in case of severe stain, or increased when stain is light, in the judgment of the inspector.

Penetrated Smudge refers to kernels obviously discoloured throughout the endosperm usually caused by a serious infection of a fungus disease.

HULLED OATS IN OATS

1 C.W.	3 per cent
2 C.W.	8 per cent
Extra 3 C.W.	8 per cent
3 C.W.	13 per cent
Extra 1 Feed	15 per cent
Lower Grades	No limit

HULLESS, BLACK AND BROWN OATS

Hulless varieties, domestic black or brown oats, will not be graded higher than Number One Feed.

WILD OATS IN BARLEY

Dockage is assessed for wild oats and shrunken barley on "C.W." grades only. Dockage for wild oats is not assessed on "Feed" grades.

It is in order to assess dockage for the removal of up to 7% of wild oats and/or shrunken barley, by use of the No. 9 wire sieve, provided that the barley will qualify for No. 3 C.W. or higher grade after this cleaning. Some shrunken barley usually passes through the sieve along with the wild oats, and is thus considered as wild oats in the assessment of dockage.

When over 7% will grade as 2 or 3 Feed Barley according to percentage tolerance of wild oats specified in the grade.

Large seeds in excess of the percentage tolerance specified in the grade will be removed as dockage where possible.

INSEPARABLE FOREIGN MATERIAL IN FLAX
(that is, foreign material remaining in samples after cleaning, including Lady's Thumb seeds.)

(a) False Flax

- 1 C.W. may contain up to 5%;
- 2 C.W. may contain up to 10%;
- 3 C.W. may contain up to 15%;
- 4 C.W. may contain up to 25%.

When over 25% False Flax, grade "Flaxseed Sample C.W. account False Flax".

(b) Inseparable seeds (other than False Flax) and/or broken grain.

All numerical grades may contain up to 1%, to be assessed as additional dockage. When containing over 1% of such admixtures, up to 3½%, grade **Rejected (to Grade) Account Admixture**, with dockage for the excess over 2½%.

Over 3½%, including not over 1% inseparable seeds, grade **Flax and Broken Grain**.

Over 3½%, including over 1% inseparable seeds, grade **Flaxseed, Sample C.W. Account Admixture (Inseparable Seeds)**.

DAMAGED — include broken, frosted, green, badly scabbed or otherwise unsound.

No. 3 C.W. and No. 4 C.W. may contain up to 35% of broken Flaxseed; over 35% up to 50% grade Flaxseed, Sample C.W. Account Broken; over 50% grade Sample, Broken Flax and Flax.

**ERGOT MIXTURES IN GRAIN
WHEAT**

1 Hard—Free.

No. 1 or No. 2—3 pieces.

No. 3 or Ex. No. 4 dur.—6 pieces.

No. 4—9 pieces.

No. 5, No. 6 or Feed—24 pieces.

In excess of these limits and not in excess of 0.5%, grade **Rejected "grade" Account Ergot**.

In excess of 0.5%, Grade Sample "class" Account Ergot.

Wheat containing ergot in excess of these tolerances will be degraded in accordance with the ergot tolerances to the next lower one or two numerical grades and then graded **Rejected "grade" Account Ergot**, up to a maximum of 0.5%.

OATS

1 C.W. Oats—Free

2 C.W. Oats—Free

Ex 3 C.W. Oats—Not more than 0.1%.

3 C.W. Oats—Not more than 0.1%.

Ex. 1 Feed Oats—Not more than 0.1%.

No. 1 Feed Oats—Not more than 0.25%.

No. 2 Feed Oats—Not more than 0.25%.

No. 3 Feed Oats—Not more than 0.25%.

Over 0.25%, grade Oats, Sample C.W. Account Ergot.

Mixed Feed Oats and No. 2 Mixed Feed Oats, containing in excess of 0.33%, grade Sample, with components named.

BARLEY

No. 1 C.W. — Free.

No. 2 C.W. — Not more than 0.05%.

No. 3 C.W. — Not more than 0.1%.

No. 1 Feed — Not more than 0.25%.

No. 2 Feed — Not more than 0.25%.

No. 3 Feed — Not more than 0.25%.

Over 0.25%, grade Barley, Sample C.W. Account Ergot.

MIXED GRAIN

Tolerances shall be the maximum allowable in lowest numerical grade of the predominant kind of grain. In excess of these tolerances, grade, Mixed Grain, Sample C.W. Account Ergot.

MILDEWED OATS

The following limits apply to kernels that have deteriorated from mildew, and not to kernels with superficial mildew, which is a factor effecting appearance and general quality to be considered along with other grading factors.

No. 1 C.W.—Free.

No. 2 C.W. and No. Extra 3 C.W. up to 0.01% mildewed kernels.

No. 3 C.W. and Extra No. 1 Feed up to 0.1% mildewed kernels.

No. 1 Feed Oats—Up to 3% mildewed kernels.

No. 2 Feed Oats—Up to 6% mildewed kernels.

No. 3 Feed Oats—Up to 12% mildewed kernels.

Over 12% grade Oats Sample C.W. Account Mildewed Kernels.

FROSTED BARLEY

No. 1 C.W. practically free from frost damage.

No. 2 C.W. not over 5% light damage; practically free from heavy damage.

No. 3 C.W. not over 2% heavy damage; not over 5% total including light damage.
Feed grades no limits of frost damage.

HEATED and /or ROTTED KERNELS WHEAT

Inspectors must exercise judgment, considering the basic quality of samples as well as the amount and degree of heated. The following tolerances may be used as a guide, based on the number of heated kernels per 500 grams, except where percentage is given.

No. 1 Hard — Free.

No. 1 — No badly binburnt, 3 distinctly heated.

No. 2 — 2 badly binburnt, or 6 distinctly heated.

No. 3 — 4 badly binburnt, or 0.1% distinctly heated.

No. 4 — 6 badly binburnt, or 0.5% distinctly heated.

No. 5 — 2% heated.

No. 6 — 5% heated.

Feed — 10% heated.

NOTE: Badly binburnt refers to severely heated kernels that are almost black or purplish black in colour.

OATS

All grades down to and including 3 C.W. must be free of heated and/or rotted kernels.

Extra No. 1 Feed — May contain 4 distinctly heated and/or rotted kernels, or 8 lightly or partially heated and/or rotted kernels (such as with rotted germs), per 500 grams.

No. 1 Feed maximum 2%

No. 2 Feed maximum 3%

No. 3 Feed maximum 5%

Over 5% up to 10% heated, and/or having distinct musty or heated odour, grade Oats, Rejected Account Heated, or Oats, Rejected Mixed Feed Oats Account Heated.

Over 10%, grade Oats, Sample C.W. Account Heated or Oats, Sample C.W. Account Rotted Kernels, or Sample Wild Oats, Account Heated.

BARLEY

No. 1 C.W., No. 2 C.W. and No. 3 C.W. must be free from heated kernels.

No. 1 Feed Maximum 0.2% heated kernels

No. 2 Feed Maximum 3.0% heated kernels

No. 3 Feed Maximum 5.0% heated kernels

Over 5% up to 10% heated, grade Barley, Rejected Account Heated.

Over 10%, grade Barley, Sample C.W. Account Heated.

RYE

Inspectors must exercise judgment, considering the basic quality of samples as well as the amount and degree of heated.

The following tolerances may be used as a guide based on the number of heated kernels per 500 grams, except where a percentage is given.

No. 1 C.W. — Free.

No. 2 C.W. — 2 badly binburnt or 4 distinctly heated.

No. 3 C.W. — 4 badly binburnt, or 8 distinctly heated.

No. 4 C.W. — 5%.

C.W. Ergoty — 5%.

C.W. Ergoty and other Grains — 5%.

Over the above tolerances to a maximum of 10% and any rye with a distinct heated odour is graded Rejected "grade" Account Heated. Over 10% grade Rye, Sample C.W. Account Heated.

FLAXSEED

No. 1 C.W.	free
No. 2 C.W.	maximum 0.2%
No. 3 C.W.	maximum 5.0%
No. 4 C.W.	maximum 10.0%

Over 10% grade Flaxseed Sample C.W. Account Heated.

No. 1 C.W. and No. 2 C.W. must be "sweet" in accordance with statutory definitions.

No. 3 C.W. and No. 4 C.W. may have a slight odour associated with the statutory tolerance of heat damage.

Flaxseed having an unmistakable odour of heated, grade Flaxseed, Sample C.W. Account Heated.

ADMIXTURES OF STONES IN WESTERN GRAIN, INSEPARABLE BY ORDINARY CLEANING WHEAT

No. 1 Hard, No. 1, No. 2, No. 3 and Extra No. 4 durum maximum 2 stones in 500 grams, No. 4, No. 5, No. 6 and Feed, maximum 3 stones in 500 grams.

In excess of 3 stones up to 2.5%, grade Rejected "grade" Account Stones.

In excess of 2.5% grade Wheat, Sample Salvage, without reference to class.

OATS

1 C.W. Oats—1 stone per 1000 grams.

2 C.W. Oats and Extra 3 C.W.—1 stone per 500 grams.

3 C.W.; Extra 1 Feed; 1 Feed; 2 Feed; 3 Feed — Mixed Feed Oats — 3 stones per 500 grams.

Any grade containing over 3 stones per 500 grams up to 2.5% grade Oats, Rejected "grade". Account Stones: over 2.5%, grade Oats, Sample Salvage, or Mixed Feed Oats, Sample Salvage.

BARLEY

No. 1.C.W. — 1 stone per 1000 grams.

No. 2 C.W. — 1 stone per 500 grams.

No. 3 C.W. and lower grades — 3 stones per 500 grams.

Any grade, containing over 3 stones per 500 grams, up to 2½% grade Barley Rejected "grade" Account Stones. Over 2.5% grade **Barley, Sample Salvage.**

RYE

No. 1 C.W., No. 2 C.W., and 3 C.W., maximum of 2 stones per 500 grams. No. 4 C.W. and lower grades, maximum of 3 stones per 500 grams.

Over the above tolerances and up to a maximum of 2.5%, grade Rye, Rejected "grade" Account Stones: over 2.5% grade Rye, Sample Salvage.

MIXED GRAIN

All grades may contain a maximum of 3 stones in 500 grams. In excess of this tolerance to a maximum of 2.5%, grade Rejected "grade" Account stones. Over 2.5%, grade Mixed Grain, Sample Salvage.

SAMPLE FEED GRAIN

May contain 0.1% of stones. Over 0.1% up to 2.5% grade Sample Feed Grain, Stones. Over 2.5% grade Sample Salvage.

FLAXSEED

All grades of Flax may contain not more than 0.05% stones (flaxseed size) per 500 grams.

Over 0.05% stones per 500 grams up to 2.5% grade Flaxseed, Rejected "grade" Account Stones.

Over 2.5%, grade Flaxseed, Sample Salvage.

SCREENINGS

No. 1 Feed Screenings or No. 2 Feed Screenings, maximum 0.1%

Uncleaned Screenings or Refuse Screenings, maximum 0.5%

Over 0.5% grade Sample Screenings Account Stones.

RAPESEED

All grades of rapeseed may contain not more than 0.05% stones. When over 0.05% stones up to 2½% grade Rejected "grade" Account Stones.

Over 2½% grade Rapeseed, Sample Salvage.

N.B.: The established export standard of any grade of Western grain shall govern when stones are contained in any Western grain loaded at terminal, mill or Eastern elevators.

EARTH PELLETS IN RAPESEED

Earth Pellets hand-picked from the cleaned sample, are added to the dockage, up to 2.5%. Over 2.5%, grade Rapeseed, Sample Canada Account Earth Pellets.

HEATED IN PEAS

No. 1 C.W. or No. 2 C.W. Free

No. 3 C.W., Extra No. 4 C.W. Maximum 0.02%

No. 4 C.W. Maximum 0.2%

NOTES ON MAXIMUM TARIFF OF CHARGES IN LICENSED COUNTRY ELEVATORS

Under the provisions of the Canada Grain Act, and subject to the capacity of the elevator and the nature of the construction, grain shall be received into licensed country elevators upon the following conditions, and subject to charges not in excess of those specified herein.

Service	Basis of Rate	Rate
1. Elevation		
Receiving, elevating, storing and insurance for the first fifteen days, and delivering into railway cars or other conveyances		
(a) wheat, barley, rye and corn _____	per bus.	3½c
(b) oats _____	per bus.	3½c
(c) flaxseed, rapeseed — and mustard seed —	per bus.	6c
(d) sunflower seed _____	per 100 lbs.	8c
(e) any other grain _____	per bus. or per lb.	a rate agreed upon by the elevator manager and owner of the grain and approved by the Board.
2. Storage (including insurance against fire)		
For each succeeding day or part thereof after the first fifteen days		
(a) all grain except sunflower seed _____	per bus.	1/30c
(b) sunflower seed _____	per 100 lbs.	1/15c
3. Cleaning		
All grain _____	per bus.	a rate agreed upon by the elevator manager and owner of the grain according to the nature of dockage, but not exceeding 2c.

Notes — 1. All charges are based on gross grain weight of the grain delivered, as shown on the receipt or ticket issued in respect of the grain.

2. Storage charges on Special Bin Grain are charged after fifteen days from delivery of each individual load in accordance with the contract set forth in the special bin elevator receipt.

SHRINKAGE

No elevator shall take more than the allowance for shrinkage, waste in handling, storing and transmitting the grain to a terminal than the weight in pounds set forth in the shrinkage table which forms part of the tariff for Country Elevators.

Such shrinkage table shall be placed conspicuously, in all licensed Country Elevators for free inspection of the public.

SHRINKAGE TABLE

STRAIGHT GRADES

WHEAT-OATS-BARLEY

CORN-SUNFLOWER (1/4%)

		Shrinkage	
Under	Lbs.	Lbs.	Lbs.
From	2000 to	2000	Nil
	6000	5999	10
	10000	9999	20
	14000	13999	30
	18000	17999	40
		21999	50

RYE (1/2%)

		Shrinkage	
Under	Lbs.	Lbs.	Lbs.
From	1000 to	1000	Nil
	3000	2999	10
	5000	4999	20
	7000	6999	30
	9000	8999	40
	11000	10999	50
	13000	12999	60
	15000	14999	70
	17000	16999	80
	19000	18999	90
		20999	100

FLAX-RAPESEED

MUSTARD SEED (1%)

		Shrinkage	
Under	Lbs.	Lbs.	Lbs.
From	500 to	500	Nil
	1500	1499	10
	2500	2499	20
	3500	3499	30
	4500	4499	40
	5500	5499	50
	6500	6499	60
	7500	7499	70
	8500	8499	80
	9500	9499	90
	10500	10499	100
	11500	11499	110
	12500	12499	120
	13500	13499	130
	14500	14499	140
	15500	15499	150
	16500	16499	160
	17500	17499	170
	18500	18499	180
	19500	19499	190
		20499	200

TOUGH OR DAMP

WHEAT-CORN-OATS (1/2%)

BARLEY-SUNFLOWER

		Shrinkage	
Under	Lbs.	Lbs.	Lbs.
From	1000 to	1000	Nil
	3000	2999	10
	5000	4999	20
	7000	6999	30
	9000	8999	40
	11000	10999	50
	13000	12999	60
	15000	14999	70
	17000	16999	80
	19000	18999	90
		20999	100

RYE (1%)

		Shrinkage	
Under	Lbs.	Lbs.	Lbs.
From	500 to	500	Nil
	1500	1499	10
	2500	2499	20
	3500	3499	30
	4500	4499	40
	5500	5499	50
	6500	6499	60
	7500	7499	70
	8500	8499	80
	9500	9499	90
	10500	10499	100
	11500	11499	110
	12500	12499	120
	13500	13499	130
	14500	14499	140
	15500	15499	150
	16500	16499	160
	17500	17499	170
	18500	18499	180
	19500	19499	190
		20499	200

FLAX-RAPESEED

MUSTARD SEED (1 1/2%)

		Shrinkage	
Under	Lbs.	Lbs.	Lbs.
From	500 to	500	Nil
	1000	999	10
	1700	1699	20
	2300	2299	30
	3000	2999	40
	3700	3699	50
	4300	4299	60
	5000	4999	70
	5700	5699	80
	6300	6299	90
	7000	6999	100
	7700	7699	110
	8300	8299	120
	9000	8999	130
	9700	9699	140
	10300	10299	150
	11000	10999	160
	11700	11699	170
	12300	12299	180
	13000	12999	190
	13700	13699	200
	14300	14299	210
	15000	14999	220
	15700	15699	230
	16300	16299	240
	17000	16999	250
	17700	17699	260
	18300	18299	270
	19000	18999	280
	19700	19699	290
		20299	300

DOCKAGE ON CASH OR STORED GRAIN

Every country elevator shall be equipped with the necessary sieves, scales and dockage testing equipment for the accurate determination of dockage. All such equipment used by country elevators shall conform to specification standards established by the Board. This equipment must be kept in good condition and shall be subject to inspection and approval by such officers as the Board may direct.

Operators shall make accurate determinations of dockage on a properly representative sample of not less than 500 grams (or 1-lb.) by use of proper sieves and equipment designated below, and by hand-picking, if necessary, any portion not separable by sieves. Dockage shall be computed to the nearest one-half percent ($\frac{1}{2}\%$).

The elevator operator shall make the test in the presence of the owner of the grain when requested.

SIEVES, SCALES AND DOCKAGE TESTING EQUIPMENT

For determining dockage in:	Equipment to be used
Wheat	Wire Sieve, 10 x 10 mesh-per-inch. No. 5 Buckwheat Sieve No. 6 Buckwheat Sieve. Cowan Dockage Tester and/or Emerson Kicker.
Barley	Wire Sieve 9 x 9 mesh-per-inch. $4\frac{1}{2}/64$ Round Hole Sieve. No. 5 or No. 6 Buckwheat sieve.
Oats	$4\frac{1}{2}/64$ Round Hole Sieve. No. 5 or No. 6 Buckwheat sieve.
Rye	No. 5 or No. 6 Buckwheat sieve. Emerson Kicker.
Flaxseed	Double Sieve Top: Wire sieve, 3 mesh x 16 mesh per inch, for small seed- ed varieties, or Top: Wire sieve, 4 mesh x 14 mesh per inch, for large seeded varieties such as Rocket or Dakota. Bottom: $4\frac{1}{2}/64$ or $5/64$ round hole sieve.
Corn	$12/64$ round hole sieve.
Soybeans	$8/64$ round hole sieve. $8/64$ x $\frac{3}{4}$ inch slotted hole sieve. $9/64$ x $\frac{3}{4}$ inch slotted hole sieve.
Sunflower Seed	Double Sieve Top: $18/64$ round hole sieve. Bottom: $10/64$ round hole sieve.

SCHEDULE C **TARIFF — TERMINAL ELEVATORS**

SERVICE		Fort William- Port Arthur	Churchill	Winnipeg	Pacific Coast	Interior Terminals
Basis of Rate						
1. Elevation						
(1) Receiving, elevating, shipping, storing and insurance for first five days						
(a) wheat, oats, barley and corn	per bushel	3 7/8¢	3 7/8¢	3 7/8¢	3 7/8¢	—
(b) rye	"	4 3/8¢	4 3/8¢	4 3/8¢	4 3/8¢	—
(c) flaxseed	"	5 3/8¢	5 3/8¢	5 3/8¢	5 3/8¢	—
(d) rapeseed and mustard seed	"	6 3/8¢	6 3/8¢	6 3/8¢	6 3/8¢	—
(e) screenings	"	6¢	6¢	6¢	6¢	—
(f) sunflower seed	"	6¢	6¢	6¢	6¢	—
(2) Receiving from railway cars, elevating, shipping, storing and insurance for first five days						
(a) wheat, oats, barley, rye and corn	per bushel	—	—	—	—	2 7/8¢
(b) flaxseed	"	—	—	—	—	3 7/8¢
(c) rapeseed and mustard seed	"	—	—	—	—	6 3/8¢
(d) screenings	"	—	—	—	—	6¢
(e) sunflower seed	"	—	—	—	—	6¢
(3) Receiving from wagons or trucks, elevating, shipping, storing and insurance for first five days						
(a) wheat, oats, barley, rye and corn	per bushel	—	—	—	—	3 3/8¢
(b) flaxseed	"	—	—	—	—	4 3/8¢
(c) rapeseed and mustard seed	"	—	—	—	—	6 7/8¢
(d) screenings	"	—	—	—	—	7 1/2¢
(e) sunflower seed	"	—	—	—	—	7 1/2¢
(4) Additional charges for shipping in railway cars, all grains	per bushel	3/5¢	3/5¢	3/5¢	3/5¢	—
2. Storage						
(1) Storing, including insurance for each day after five days						
(a) wheat, oats, barley, rye, flaxseed, rapeseed, mustard seed and corn	per bushel	1/30¢	1/30¢	1/30¢	1/30¢	1/30¢
(b) screenings	per 100 pounds	1/10¢	1/10¢	1/10¢	1/10¢	1/10¢
(c) sunflower seed	"	1/15¢	1/15¢	1/15¢	1/15¢	1/15¢

TERMINAL CLEANING CHARGES

(1) **For removal of dockage:** (other than grain for which a return is made).

(a) **Wheat, Oats** — containing less than 3% dockage—No charge; containing from 3% to 5% dockage—One-half cent ($\frac{1}{2}c$) per bushel; containing from $5\frac{1}{2}\%$ up to 10% dockage—One cent (1c.) per bushel; containing more than 10% dockage—One and one-half cents ($1\frac{1}{2}c$) per bushel.

(b) **Flax** — Containing less than $5\frac{1}{2}\%$ dockage—No charge; containing from $5\frac{1}{2}\%$ to 10% dockage—Two and one-half cents ($2\frac{1}{2}c$) per bushel; containing more than 10% dockage—Three cents (3c) per bushel.

(c) **Rye**—Containing less than 3% dockage— $\frac{1}{4}$ cent per bushel; containing from 3 to 5% dockage—1 cent per bushel; containing from $5\frac{1}{2}\%$ to 10% dockage— $1\frac{1}{2}$ cents per bushel; containing more than 10% dockage—2 cents per bushel.

(d) **Barley**—Containing less than $5\frac{1}{2}\%$ dockage—one-half cent ($\frac{1}{2}c$) per bushel; containing from $5\frac{1}{2}\%$ to 10% dockage—one cent (1c) per bushel; containing more than 10% dockage—one and one-half cents ($1\frac{1}{2}c$) per bushel.

(e) **Sunflower Seed**—Containing less than $5\frac{1}{2}\%$ dockage — no charge; containing from $5\frac{1}{2}\%$ to 10% dockage — three cents (3c) per hundred (100) pounds; containing more than 10% dockage—four cents (4c) per hundred (100) pounds.

(2) **For removal of other grain, except mixed feed oats, from grain carrying a return for such other grain (c.c. cars) in addition to charges, if any, as herein provided.**

All Grains: Containing not more than 10% other grain—Three cents (3c) per hundred pounds; containing more than 10% but not more than 15% other grain — Four cents (4c) per hundred pounds; containing more than 15% of other grain — Five cents (5c) per hundred pounds.

(3) **For removal of mixed feed oats from wheat carrying a return of mixed feed oats.** One-half cent ($\frac{1}{2}c$) per bushel in addition to charges as herein provided.

TERMINAL SPECIAL SEPARATIONS

Separations of mixed grain or straight grade

Rapeseed	5/64 round hole sieve.
	5½/64 round hole sieve.
	6/64 round hole sieve.
	Wire sieve—4 x 20 mesh-per-inch
	Wire sieve—4 x 22 mesh-per-inch.
Mustard Seed	Wire sieve—6x21 mesh-per-inch.
	5/64 round hole sieve.
	5½/64 round hole sieve.
	6/64 round hole sieve.
	Wire sieve—4x20 mesh-per-inch.
Peas	Wire sieve—4x22 mesh-per-inch.
	Wire sieve—6x21 mesh-per-inch.
	8/64 x ¾ inch slotted hole sieve.
	9/64 x ¾ inch slotted hole sieve.
	No. 5 or No. 6 Buckwheat sieve.
Domestic Buckwheat	

GENERAL

When tough, damp or wet grain is taken into store it shall be at the owner's risk, and the elevator operator shall have the right to ship it immediately to a terminal elevator for treatment.

All tough, damp or wet grain, containing an excessive amount of snow and ice, may be handled subject to agreement between the owner of the grain and the operator.

GRAIN TREATMENT RESTRICTIONS AT COUNTRY ELEVATORS

Grain shall not be treated with mercurial dust compounds or other fungicides in any part of the elevator or driveway, nor shall such fungicides be stored in the elevator or driveway. Seed treatment shall be carried out in a separate building which shall not be equipped with spouts or connections which will permit grain to be returned to the elevator.

Where new grain treating facilities are being planned, detailed plans and specifications must be submitted to the Board for review and approval before proceeding with these installations.

NOTES ON MAXIMUM TARIFF OF SEMI PUBLIC TERMINAL ELEVATORS CHARGES AT FORT WILLIAM, PORT ARTHUR, WINNIPEG, CHURCHILL, PACIFIC COAST AREA AND INTERIOR TERMINALS

Under the provisions of The Canada Grain Act and subject to the capacity of the elevator and the nature of its equipment, grain shall be received at terminal elevators, upon the following conditions and subject to charges not in excess of those specified in the Regulations. See table page 54.

grain to improve grade, computed on gross weight of car, five cents (5c) per one hundred pounds.

On all such separations a deduction of one per cent (1%) of the gross weight will be made to cover invisible loss in separation.

TERMINAL RETURNS FOR DOCKAGE

Wheat: On shipments assessed dockage of three percent (3%) or more a return for all such screenings, less one-half of one percent of the gross weight of the shipment for waste shall be made to the shipper. Separate returns shall be made for other grain or mixed feed oats (wild oats) in shipments designated "Machine Separation" on account of containing two and one-half percent (2½%) or more oats; two and one-half per cent (2½%) or more flax; three per cent (3%) or more flax and broken grain; three and one-half per cent (3½%) or more mixed feed oats, or five percent (5%) or more broken wheat. On shipments which are designated "Machine Separation" for mixed feed oats (wild oats) a deduction of one-half of one percent of the gross weight of the shipment for waste shall be deducted from the return for the mixed feed oats.

Oats: On shipments assessed dockage of three percent (3%) or more a return for all such screenings, less one-half of one percent of the gross weight of the shipment for waste shall be made to the shipper. A separate return shall be made for flax in shipments designated "Machine Separation" on account of containing two and one-half percent (2½%) or more flax; or three percent (3%) or more flax and broken grain.

Barley: On shipments assessed dockage a return for all such screenings less one-half of one percent of the gross weight of the shipment for waste shall be made to the shipper. A separate return shall be made for flax in shipments designated "Machine Separation" on account of containing two and one-half percent (2½%) or more of flax; or three percent (3%) or more flax and broken grain.

Rye: On shipments assessed dockage of three percent (3%) or more a return for all such screenings less one percent (1%) of the gross weight of the shipment for waste shall be made to the shipper. Separate return shall be made for other grain in shipments designated "Machine Separation" on ac-

count of containing two and one-half percent ($2\frac{1}{2}\%$) or more oats; two and one-half percent ($2\frac{1}{2}\%$) or more of flax; three percent (3%) or more flax and broken grain; or five percent (5%) or more broken rye.

Flax, Rapeseed and Sunflower Seed: On shipments assessed dockage of five and one-half percent ($5\frac{1}{2}\%$) or more a return for all such screenings less two and one-half percent ($2\frac{1}{2}\%$) for flax and rapeseed, less 1% for Sunflowers; of the gross weight of the shipment for waste shall be made to the shipper.

Separate returns shall be made for other grain or mixtures of grains in shipments designated "Machine Separation" on account of containing two and one-half percent ($2\frac{1}{2}\%$) or more of other grain or mixtures of grains.

Quality of Screenings: The holder of Warehouse Receipts or shut-outs covering dockage shall be entitled to receive the average quality of screenings in accordance with sample tests which shall be made in such manner as shall be determined by the Inspection Branch.

Disposition of Screenings: If instructions for the disposition of screenings covered by outstanding returns are not received within thirty days from the date of unloading, such screenings may be disposed of for account of whom it may concern.

DRYING CHARGES

All grain except Flax, Sunflower Seed, Rapeseed, Mustard Seed, and the malting grades of Barley

Tough—Four Cents (4c) per bus.

Damp — up to and including 20% moisture —
Six and one-half cents ($6\frac{1}{2}c$) per bus.

Damp — containing over 20% moisture — Seven
and one-half cents ($7\frac{1}{2}c$) per bus.

Flax and the malting grades of Barley

Tough — Five Cents (5c) per bus.

Damp — Nine Cents (9c) per bus.

Rapeseed and Mustard Seed

Tough — Five cents (5¢) per bushel;

Damp—Ten cents (10¢) per bushel.

Sunflower Seed

Tough — Ten Cents (10c) per hundred (100) lbs.

Damp — Fifteen Cents (15c) per hundred (100) lbs.

Moist and Wet — Twenty Cents (20c) per hundred (100) lbs.

ALLOWANCE FOR INVISIBLE LOSS AND SHRINKAGE ON ALL CARS

Wheat .5 bushels per car; Oats 1.5 bushels per car; Barley 1.0 bushels per car; Corn 1.0 bushels per car; Rye 1.3 bushels per car; Flax 2.1 bushels per car; Repeseed 2.5% dockage or less 2.5 bushels per car; over 2.5% dockage .5% of gross weight per car; Mustard Seed 2.5 bushels per car; No. 1 Mixed Grain .5 bushels per car; No. 2 Mixed Grain 1.3 bushels per car; No. 3 Mixed Grain 1.0 bushels per car; No. 4 Mixed Grain 1.5 bushels per car; No. 5 Mixed Grain 50 pounds per car; Sunflower Seed 50 pounds per car.

BULKHEADS

On Bulkheads for their removal and other additional expense in handling and unloading car, five dollars (\$5.00) per bulkhead.

UNLOADING SACKED GRAIN

A charge of five cents (5c) per sack will be made for unloading all sacked grain.

SACKING GRAIN

SACKING GRAIN: On sacks not exceeding 125 lbs., 1½c per bushel; 160 lbs., 2c per bushel; 220 lbs., 2½c per bushel.

Double sacking 1c per sack in addition to above.

For sacking Screenings 10c per sack. This will only be done when conditions warrant it at the discretion of the Licensee.

Sacks and twine to be furnished by shipper. In case of machine sewing the charge is ¼c per sack for twine.

A charge of ¼c per sack will be made for stencilling.

PREPARING CARS FOR LOADING

When PAPER liners are used in preparing cars, there will be a charge of eleven dollars and fifty cents (\$11.50) for each car.

UNSPECIFIED GRAIN

Salvaged or other unspecified grain will only be received, stored and treated subject to special charges to be agreed upon at the time subject to the approval of the Board of Grain Commissioners.

Tariffs of charges lower than the above maximum tariff may be filed with the Board by the Manager of any Terminal Elevator, but such lower charges shall apply to all grain received in such elevator during the crop year for which such tariffs or charges are filed.

NOTE RE ALL CHARGES

All charges for cleaning, drying or other treatment will be computed on gross weights—for elevation and storage on net weights. These accrued charges, together with freight charges, are due the elevator company when the car is out-turned and warehouse receipt issued. All such charges are paid by the elevator company, to whom the car is consigned. The terminal elevator tariff allows 5 days free storage included in the elevator fee.

NOTES RE INTERIOR TERMINAL TARIFF

See table on page 53.

SPECIAL CLEANING

For removal of material other than assessed dockage, at request of owner:

One-half cent per bushel in addition to charges under "Cleaning Charges" Section 1. Returns for such cleaning to be based on actual results after cleaning and deduction for actual invisible loss.

DELIVERY OF GRAIN TREATED WITH POISONOUS MATERIALS OR CONTAINING EXTRANEEOUS MATERIALS

In order to prevent the entry into commercial channels of grain treated with poisonous fungicides, or containing extraneous materials, the Board of Grain Commissioners for Canada has made effective immediately the following Regulation No. 74.

No. 74 (1) No person shall offer for storage or sale at a licensed elevator any grain that has been treated with mercurial compounds or other poisonous material or any grain mixed with other grain that has been so treated. (2) Except with the permission of the chief grain inspector no carlot of grain found to contain grain treated with mercurial compounds or other poisonous materials shall be moved to any destination.

No. 74A. No person shall wilfully or carelessly cause or permit glass or other extraneous material to be introduced into or remain in grain or grain screenings under the jurisdiction of the Board.

NOTE — Severe penalties are provided by the Canada Grain Act for any individual convicted of such violations.

THE SEEDS ACT, 1960

The seed grade regulations are administered by the Plant Products Division, Production and Marketing Branch, Canada Department of Agriculture. The Grades of various kinds and classes of seed are described in detail in the Seeds Act. The Canadian Seed Growers' Association is the approved agency in Canada empowered by the Act to certify seed crops as to varietal purity and maintain the necessary standards used in the production of pedigreed seed crops. A copy of this Act containing a list of the prohibited, primary and secondary noxious weed seeds may be secured from any district office of the Plant Products Division, Winnipeg, Saskatoon or Edmonton or direct from the Canada Department of Agriculture. Regulations and procedures for pedigreed seed crop production are available at district offices or directly from the office of the Canadian Seed Growers' Association, G.P.O. Box 455, Ottawa 2.

DEFINITIONS

Pedigreed seed is derived from a crop granted a certificate by the Canadian Seed Growers' Association and sealed under the provisions of the Canada Seeds Act. The certificate indicates the class or status of the crop which produced the seed. The different classes are so handled or managed during the production stages to maintain identity and genetic purity. The maximum number of plants of another variety or the off-types tolerated in each class are defined under field standards established by the Association.

The initial and recurring class used in the production of pedigreed seed is designated as Breeder. It is directly controlled by the originating plant breeder or institution and provides a highly purified varietal source used for the production and multiplication of subsequent classes.

The first crop of cereal variety produced from Breeder seed is known as Select and each succeeding one is a generation lower. Foundation, registered and certified designates the class description applicable to each of the subsequent generations. Varieties in short supply may be continued through further generations. Seed growers recognized by the Association as established producers increase the relatively small quantity of Breeders* stock so that large quantities of certified seed can be made available for general crop improvement purposes. Certified* seed must be directly traceable to Select*, Foundation* or reg-

istered* stock and differs only from these in that the purity standards as determined by field and seed inspection are not quite as high. Only varieties of outstanding merit which have been licensed for sale by Canada Department of Agriculture are eligible for the production of seed intended for use in Canada.

Forage varieties originating in Canada are multiplied only through Breeder, Foundation and Certified classes.

The number of years Forage class standards are allowed to produce seed crops are prescribed by the Association.

Foreign varieties, both cereal and forage are multiplied as specified by the Plant Breeder State or Country of origin.

*Class terminology revision effective July 1968.

Registered Seed. Under the latest Seeds Regulations (effective July 15, 1960) "registered status" with respect to seed means that:

- (1) The crop from which the seed is derived meets the standards prescribed by the Canadian Seed Growers' Association and a Crop Registration Certificate has been issued by that Association, or,
- (2) If of foreign origin, the seed is certified as being of registered status by an approved certifying agency.

Certified Seed must be directly traceable to Select*, Foundation* or Registered* stock and differs only from these in that the purity standards as determined by field and seed inspection are not quite as high. Only varieties of outstanding merit which have been licensed for sale by Canada Department of Agriculture are eligible for the production of seed intended for use in Canada. Certified seed is the class of seed intended for general crop improvement purposes.

Under the latest Seeds Regulations (effective July 15, 1960) "certified status" with respect to seed means that

- (1) The crop from which the seed is derived meets the standards, prescribed by the Canadian Seed Growers' Association and a crop certificate has been issued by that Association, or,

- (2) If of foreign origin, the seed is certified as being of certified status by an approved certifying agency.

CLASSIFICATION OF WEED SEEDS

(Weed Seeds Order — August 12, 1960)

Prohibited Noxious. Dodder, Field Bindweed, Halogeton, Hoary Cress, Horse Nettle, Leafy Spurge, Russian Knapweed, Tansy Ragwort.

Primary Noxious. Bladder Campion, Couch Grass, Great Ragweed, Ox-eye Daisy, Perennial Sow Thistle, Toad Flax, White Cockle, Wild Mustard, Wild Radish, Yellow Rocket or Winter Cress.

Secondary Noxious. Bedstraw, Canada Thistle, Chicory, Common Ragweed, Dock, Dog Mustard, False Flax, Field Peppergrass, Night-flowering Catchfly, Ribgrass, Stickseed, Stinkweed, Tall Hedge Mustard, Wild Carrot, Wild Oats.

SEED GRADE STANDARDS

1	2	3	4	5	6
WHEAT Common, Durum	Maximum number of seeds per pound except where otherwise stated				Minimum per- centage germina- tion
	Noxious weed seeds			Total other crops	
	Primary	Primary plus secondary			
		Total weed seeds			
1. Canada Registered No. 1.....	0	0	3	0.25	85
2. Canada Registered No. 2.....	0	2 per bu.	10	1.0	75
3. Canada Certified No. 1.....	0	0	5	1.0	85
4. Canada Certified No. 2.....	0	2 per pk.	10	3.0	75
5. Canada No. 1 seed.....	0	1	15	10.0	85
6. Canada No. 2 Seed.....	2	8	50	50.0	70

NOTE 1. In addition to the standards prescribed in the Table, seed to which the Table applies shall in Manitoba, Saskatchewan, Alberta and British Columbia be free from tartarian buckwheat.

2. Ergot (*Claviceps purpurea*) shall not be present in excess of 1 per two pounds in grades Canada Registered No. 1 and Canada Certified No. 1 or 4 per pound in Canada Registered No. 2 and Canada Certified No. 2.

3. In Column 5 there may be allowed in Durum wheat (*Triticum durum* Desf.) additional seeds of common wheat (*Triticum aestivum* L.) as follows:
 Five in Canada Certified No. 1, ten in Canada Certified No. 2, fifteen in Canada No. 1 seed, twenty-five in Canada No. 2 seed.

SEED GRADE STANDARDS (Cont.)

1	2	3	4	5	6	7	8
	Maximum number of seeds per pound except where otherwise stated				Total other crops	Rye	Other kinds
	Noxious weed seeds		Addi- tional wild oats in oats	Total weed seeds			
	Primary	Primary plus secondary					
1. Canada Registered No. 1.....	0	0	0	3	0.5	75	85
2. Canada Registered No. 2.....	0	2 per bu.	0	10	2	65	75
3. Canada Certified No. 1.....	0	2 per pk.	0	5	3	75	85
4. Canada Certified No. 2.....	0	3 per pk.	0	10	10	65	75
5. Canada No. 1 seed.....	0	1	1	15	100	75	85
6. Canada No. 2 seed.....	2	3	6	50	150	65	75

NOTE 1. In addition to the standards prescribed in the Table, seed to which the Table applies shall in Manitoba, Saskatchewan, Alberta and British Columbia be free from tartarian buckwheat.

2. Ergot (*Claviceps purpurea*) shall not be present in excess of 1 per two pounds in grades Canada Registered No. 1 barley, 4 per pound in Canada Registered No. 2 barley, 1 per pound in Canada Registered No. 1 rye or 10 per pound in Canada Registered No. 2 rye.

3. True loose smut (*Ustilago nuda*) as determined by the embryo test method shall not be present in barley in excess of four per cent in the Canada Registered grades or 8 per cent in the Canada Certified grades.

4. In column 3 there may be allowed six secondary noxious weed seeds per peck in Canada Certified No. 2 oats.

5. In column 5 there may be allowed ten additional false wild oats in all grades of oats.

SEED GRADE STANDARDS (Cont.)

1	2	3	4	5	6	7			
							Maximum number of seeds per ounce		
							Noxious weed seeds		Seeds of other crops
							Primary	Primary plus secondary	
CANARY GRASS	0	0	3	0.5	85	85			
FLAX, (Oil and Fibre)	0	0.5	5	1.0	75	70			
SORGHUM, SUDAN GRASS	0	0.5	5	1.0	85	85			
1. Canada Registered No. 1	0	0	3	0.5	85	85			
2. Canada Registered No. 2	0	0.5	5	1.0	75	70			
3. Canada Certified No. 1	0	0.5	5	1.0	85	85			
4. Canada Certified No. 2	0	2.0	10	2.0	75	70			
5. Canada No. 1 seed	0	2.0	10	2.0	85	85			
6. Canada No. 2 seed	1	10.0	50	8.0	70	70			

NOTE: In column 5 there may be allowed in seed of sorghum, Sudan grass and canarygrass other crop seeds as follows:
25 in Canada No. 1 seed and 50 in Canada No. 2 seed

SEED GRADE STANDARDS (Cont.)

1	2	3	4	5		6
				Minimum percentage germination		
				Peas, Beans and Soybeans	Other kinds	
BEANS, PEAS, CORN, SOYBEAN, SUNFLOWER SAFFLOWER	Maximum number of seeds per pound		Maximum percentage moisture for field corn			
	weed seeds	other crops				
	0	0	13	85	90	
	0	0	13	75	80	
	0	1	13	85	90	
	0	3	13	75	80	
1. Canada Registered No. 1.....	1	5	14	80	90	
	3	10	14	60	80	
2. Canada Registered No. 2.....						
3. Canada Certified No. 1.....						
4. Canada Certified No. 2.....						
5. Canada No. 1 seed.....						
6. Canada No. 2 seed.....						

NOTE: When garden peas or garden beans, sold ungraded, germinate less than 75 per cent, the percentage of germination shall be stated on the label or package.
In the case of sweet corn, sunflower and safflower the percentage germination is less than 80%.

SEED GRADE STANDARDS (Cont.)

1 Species of:	2		3	4	5	6	7				8	
	Maximum number of seeds per ounce except where otherwise stated						Minimum percentage pure living seed				Minimum percentage pure seed	
	Noxious weed seeds						1	2	3	4	5	6
	Primary	Primary plus secondary	Total weed seeds	Sweet clover	Seeds of other crops							
1. Canada Registered No. 1.....	0	1	5	1	5		80	75	70	55	95	90
2. Canada Registered No. 2.....	0	2	25	2	25		70	65	60	50	90	80
3. Canada Certified No. 1.....	0	5	75	25	2% by weight		80	75	70	55	95	90
4. Canada Certified No. 2.....	0	10	100	50	3% by weight		70	65	60	50	90	80
5. Canada No. 1 Seed.....	0	5	75	25	2% by weight		80	75	70	55	95	90
6. Canada No. 2 Seed.....	5	20	150	100	3% by weight		70	65	60	50	90	80
7. Canada No. 3 Seed.....	10	50	200	Less than 1% by weight	Less than 5% by weight		60	55	55	45	80	75

1. Annual ryegrass, Meadow fescue, Perennial ryegrass, Tall fescue, Creeping red fescue, Red fescue, Chewing's fescue.

2. Meadow foxtail, Orchard grass, Pubescent wheatgrass, Russian wild rye, Slender wheatgrass, Streambank wheatgrass, Bromegrass, Fine-leaved, hard, sheep's and various-leaved fescues.

3. Crested wheatgrass, Intermediate wheatgrass, Tall wheatgrass, Tall oatgrass.

4. Reed Canary grass.

5. Annual ryegrass, Creeping red fescue, Meadow fescue, Perennial ryegrass, Red fescue, Reed canary grass, Tall fescue, Chewing's fescue.

6. Bromegrass, Crested wheatgrass, Fine-leaved, hard, sheep's and various-leaved fescues, Intermediate wheatgrass, Meadow foxtail, Orchard grass, Pubescent wheatgrass, Russian wild rye, Slender wheatgrass, Streambank wheatgrass, Tall oatgrass, Tall wheatgrass.

SEED GRADE STANDARDS (Cont.)

1	2	3	4	5	6	7	8	
ALFALFA, MILLETS, CLOVER (Crimson, Red, Sweet) TIMOTHY	Maximum number of seeds per ounce except where otherwise stated			Seeds of other crops	Sweet clover	Seeds of other crops	Mini- mum per- centage germin- ation	Maximum percentage hulled seed in timothy by count
	Noxious weed seeds							
	Primary	Primary plus secondary	Total weed seeds					
	Primary	Primary plus secondary	Total weed seeds					
1. Canada Registered No. 1.....	0	1	10	1	10	85	50	
2. Canada Registered No. 2.....	0	2	75	1	50	70	100	
3. Canada Certified No. 1.....	0	5	75	25	2% by weight	80	50	
4. Canada Certified No. 2.....	0	10	100	50	3% by weight	70	75	
5. Canada No. 1 seed.....	0	5	75	25	2% by weight	80	50	
6. Canada No. 2 seed.....	5	15	150	100	3% by weight	70	75	
7. Canada No. 3 seed.....	10	50	300	less than 1% by weight	less than 5% by weight	60	100	

NOTE: 1. Column 5 does not apply to sweet clover graded under this table.

2. In column 6 there may be allowed in timothy seeds of other crops as follows:—
20 in Canada Registered No. 1 and 100 in Canada Registered No. 2.

SEED GRADE STANDARDS (Cont.)

1	2	3	4	5	6	7	8
ALSIKE AND OTHER CLOVERS BIRD'S FOOT TREFOIL	Maximum number of seeds per ounce except where otherwise stated					Minimum percentage germination	
	Noxious weed seeds		Total weed seeds	Sweet clover	Seeds of other crops		
	Primary	Primary plus secondary				Bird's foot trefoil	Other kinds
1. Canada Registered No. 1.....	0	1	10	1	15	75	85
2. Canada Registered No. 2.....	0	2	75	1	100	65	70
3. Canada Certified No. 1.....	0	10	100	25	2% by weight	75	80
4. Canada Certified No. 2.....	0	20	200	50	3% by weight	65	70
5. Canada No. 1 seed.....	0	10	100	25	2% by weight	75	80
6. Canada No. 2 seed.....	5	20	200	100	3% by weight	65	70
7. Canada No. 3 seed.....	10	50	300	less than 1% by weight	less than 5% by weight	55	60

Seeds of other crops in bird's-foot trefoil under column 6 may be fifty per ounce for Canada Registered No. 1, three hundred per ounce for Canada Registered No. 2, three per cent for Canada Certified No. 1, and Canada No. 1 seed and five per cent for Canada Certified No. 2 and Canada No. 2 seed.

SEED GRADE STANDARDS (Cont.)

1	2	3	4	5	6
	Maximum number of seeds per ounce				
	Noxious weed seeds		Total weed seeds	Seeds of other crops	Minimum percentage germination
	Primary	Primary plus secondary			
1. Canada Registered No. 1.....	0	2	5	5	80
2. Canada Registered No. 2.....	2	10	25	20	60
3. Canada Certified No. 1.....	0	5	20	10	80
4. Canada Certified No. 2.....	2	20	50	20	70
5. Canada No. 1 seed.....	1	10	30	10	80
6. Canada No. 2 seed.....	2	50	100	30	70

SEED GRADE STANDARDS (Cont.)

1	2	3	4
DUTCH SETS AND MULTIPLIER ONIONS	Size Square Mesh Screen	Variety and Colour	General Quality
1. Canada No. 1 seed---	Diameter $\frac{3}{8}$ " to $\frac{7}{8}$ "	Not less than 98% one variety and colour	Mature, well cured, sound, free from decay and dry. Practically free from tops, dirt, leaves or other foreign matter, from disease and moulds and from insect, mechanical, frost or other damage. Practically free from sprouted and soft bulbs when graded.
2. Canada No. 2 seed---	Diameter $\frac{3}{8}$ " to $1\frac{1}{8}$ "	Not less than 90% one variety and colour	Mature, well cured, sound, free from decay and reasonably dry. Reasonably free from tops, dirt leaves or other foreign matter, from disease and moulds and from insect, mechanical, frost or other damage. Reasonably free from soft bulbs and containing not more than 3% sprouts when graded.

NOTE—1. The size standards under column 2 do not apply to multiplier onions.

2. Onion sets may be labelled "pin-head" onion sets when they conform to the standards specified in the table and when the diameter of the sets is not more than $\frac{3}{8}$ inches.

SEED GRADE STANDARDS (Cont.)

1	2	3	4	5	6
OILSEED RAPE	Maximum number of seeds per ounce except where otherwise stated				
	Noxious Weed Seeds		Total Weed Seeds	Seeds of Other Crops	Minimum Percentage Germination
	Primary	Primary Plus Secondary			
1. Canada Registered No. 1-----	0	0	25	20	90
2. Canada Registered No. 2-----	0	2	50	50	75
3. Canada Certified No. 1-----	0	2	50	50	90
4. Canada Certified No. 2-----	0	5	100	100	80
5. Canada No. 1 seed-----	0	10	100	0.5% by weight 1% by weight	90
6. Canada No. 2 seed-----	10	50	250		70

1	2	3	4	5	6	7	8
MIXTURES OF FORAGE SEED	Maximum number of seeds per ounce except where otherwise stated						
	Noxious Weed Seeds			Sweet Clover	Reed Canary Grass	Kentucky Bluegrass, Canada Bluegrass	Minimum Percentage Germination for Each Ingredient
	Primary	Primary Plus Secondary	Total Weed Seeds				
1. Canada No. 1 Mixture---	0	10	100	50	55	65	75
2. Canada No. 2 Mixture---	10	30	200	100	50	55	65
3. Canada No. 3 Mixture---	15	75	Less than 1% by weight	Less than 1% by weight	45	50	55

NOTE—1. Mixtures of grass seeds not designated by the sender as lawn or turf grass mixtures shall be graded under this table.

2. Column 5 does not apply to mixtures containing 1 per cent or more of sweet clover seed.

3. No. 1 Mixture may contain one primary noxious weed seed per ounce when there is present singly, or combined, 10% or more of Timothy, Canada Bluegrass Kentucky Bluegrass or Red Top Seed.

BEEF GRADES

The Beef grading regulations are administered by the Livestock and Livestock Products Division, Production and Marketing Branch, Canada Department of Agriculture.

CANADA CHOICE (Red Brand)—This grade shall include only choice carcasses of steers and heifers having the following characteristics: excellent conformation, finish and quality. The carcasses shall be relatively blocky, heavily and uniformly fleshed throughout. Rounds, loins, ribs, chucks and plates shall be very thick and heavily fleshed. The neck shall be short and well filled. Shanks shall be well muscled.

The flesh shall be firm, velvety, fine-grained, and of an attractive light or cherry red colour. There shall be marked indications of youth in the chine, sternum, sacrum and aitch bones.

The bones shall be soft, red and porous. The pearl-like cartilage on the tips of the chine bones may have slight granulation in the upper front dorsal area. Pearl-like capping cartilage shall be present on the lumbar vertebrae. The exterior surface of the carcass shall be covered with firm fat, white or slightly tinged with reddish or amber colour. This fat should be fairly smooth and reasonably uniform in thickness.

Carcasses from fed calves and steers and heifers of light weight may have a lesser degree of finish than heavier carcasses. The degree of finish may increase with the weight of carcass.

Any excess proportion of fat to lean at any weight shall debar a carcass from this grade.

CANADA GOOD (Blue Brand)—This grade shall include only good carcasses of steers and heifers having the following characteristics: Good conformation, finish and quality. Rounds, loins and ribs shall be reasonably full. Chucks and plates shall be moderately thick. The neck shall be reasonably short and thick.

The flesh shall be at least moderately firm.

The colour shall not be excessively dark.

There shall be marked indications of youth in the chine, sternum, sacrum and aitch bones.

The bones shall be soft, red and porous. The pearl-like cartilage on the tips of the chine bones may have slight granulation in the upper dorsal area. Pearl-like capping cartilage shall be present on the lumbar vertebrae.

The fat covering shall extend well over the exterior surfaces but may be somewhat lacking on the neck and lower parts of the rounds, shoulders and shanks. The fat covering should be reasonably firm, smooth and white but may be somewhat soft or have a yellowish tinge. Carcasses from fed calves and steers and heifers of light weight may have a lesser degree of finish than heavier carcasses. The degree of finish may increase with the weight of carcass.

Any excess proportion of fat to lean at any weight shall debar a carcass from this grade.

CANADA STANDARD (Brown Brand)—This class shall include only carcasses of steers and heifers having the following characteristics: top medium or better conformation, finish and quality, being slightly deficient in one or more of these factors as compared to grade Good; at least moderate depth of fleshing in ribs, loins, and rounds; only a slight tendency to angularity, with hip and shoulder points no more than barely noticeable. The flesh shall be at least moderately firm and the colour may range from bright red to somewhat darker red.

There shall be marked indications of youth in the chine, sternum, sacrum and aitch bones. The bones shall be soft, red and porous. The pearl-like cartilage on the tips of the chine bones may have slight granulation in the upper dorsal area. Pearl-like capping cartilage shall be present on the lumbar vertebrae.

While the fat covering in general for this grade shall be somewhat lighter than that for Grade Good it shall in no case exceed that for the average of Good Grade. The fat covering shall extend over most of the exterior surface and may be firm to slightly soft and of a white or pale yellow colour.

Any excess proportion of fat to lean at any weight shall debar a carcass from this grade.

CANADA COMMERCIAL — CLASS 1—This class shall include only carcasses of steers and heifers having the following characteristics: Low medium general quality, carcass relatively long in proportion to width and inclined to be slightly angular; hip and shoulder points noticeable but not prominent; moderate fleshing but somewhat less than the minimum for Standard grade. There shall be marked indications of youth in the chine, sternum, sacrum, and aitch bones. The bones shall be soft, red and porous. The pearl-like cartilage on the tips of the chine bones may have slight granulation in the upper dorsal area. Pearl-like capping cartilage shall be present on the lumbar vertebrae.

There shall be at least a fair fat covering over most of the exterior surface.

An excess proportion of fat to lean shall debar a carcass from this class.

CANADA COMMERCIAL — CLASS 2—This class shall include carcasses of young cows and aged heifers having medium or better conformation, finish and quality. Rounds shall be thick, loins may be somewhat flat; rib, chuck, plate and brisket moderately thick; hip and shoulder points slightly prominent but well covered. There shall be progressively better conformation as age approaches the maximum for the class. The flesh shall be firm, fine grained and of good colour.

Hind quarters shall have cartilage on the tips of the lumbar vertebrae, or a red line where the capping cartilage was present, indicating that ossification was only recently completed. On the front quarters, while there may be considerable ossification, some pearl-like cartilage must be in evidence on the tips of the dorsal vertebrae and on the sternum bone. The exterior fat shall extend well over the carcass without excessive waste or patchiness, and shall be firm, creamy or yellowish in colour.

CANADA COMMERCIAL — CLASS 3—This class shall include only carcasses of steers, heifers, and young cows which are overfat and wasty, and which meet conformation and age requirements above those for Utility grade.

CANADA UTILITY — CLASS 1—This class shall include only carcasses of steers, heifers and young cows of common quality; conformation may be somewhat rangy, angular, and irregular; all parts may be thinly fleshed providing there is at least fair proportion of meat to bone. There shall be progressively better conformation as age approaches the maximum for the Class.

Hind quarters shall have cartilage on the tips of the lumbar vertebrae, or a red line where the capping cartilage was present, indicating that ossification was only recently completed. On the front quarters, while there may be considerable ossification, some pearl-like cartilage must be in evidence on the tips of the dorsal vertebrae and on the sternum bone. There shall be at least a slight fat covering over the ribs and loins.

CANADA UTILITY — CLASS 2—This class shall include only carcasses of mature cows of medium or better conformation; finish and quality, having advanced beyond the age eligible for Commercial Class 2.

Carcasses shall be fairly well fleshed on the hips, steak pieces, and chucks, with an exterior fat covering over the loins and ribs, extending at least moderately well over the chucks and rounds, providing that somewhat less covering is acceptable in carcasses having indications of youth.

An excess proportion of fat to lean shall debar a carcass from this grade.

CANADA UTILITY — CLASS 3—This class shall include only cow carcasses not eligible for Class 2 but above "Manufacturing" quality.

CANADA MANUFACTURING — (Canners)—This grade shall include only carcasses of steers, heifers, or cows. Cow carcasses constitute a large proportion of the beef eligible for this grade.

The quality shall be below that specified for Utility grade and for the most part shall include beef not suitable for sale as carcasses. There may be a large proportion of bone to flesh and exterior fat covering may be absent.

CANADA BULL—This grade shall include only the carcasses of stags and bulls.

GRADES FOR HOG CARCASSES

The hog grading regulations are administered by the Livestock Division, Production and Marketing Branch, Canada Department of Agriculture.

CANADA GRADE A — Are hog carcasses having the following characteristics: choice quality and conformation, lengthy, and lean throughout; shoulder smooth and comparatively light in weight; belly well muscled with thick flank, uniform in width and free from seediness; ham heavily muscled and lean; back fat comparatively uniform in thickness, but not deficient; in addition to meeting back fat specifications carcasses must be free of any thick deposits of fat; flesh firm, fine grained and bright in colour; fat firm and white; and skin smooth, and without extensive areas of dark hair roots or pigment.

CANADA GRADE B — Are hog carcasses having the following characteristics: shoulder slightly heavy or slightly fat; belly slightly uneven, somewhat thin, wrinkles, fat, or wide, and free from sponginess; ham a little thin or slightly fat; back fat slightly uneven or slightly deficient; fleshing reasonably firm, fine grained and bright in colour; and skin that is not rough, or coarse in texture.

CANADA GRADE C — Are hog carcasses having the following characteristics: may be short, thick, heavy shouldered and round ribbed; there may be a greater degree of fat to lean and more unevenness of fat covering as compared to Canada Grade B; the fat may be slightly soft or slightly deficient; and carcasses of young females of good quality with slight mammary development may be included.

CANADA GRADE D — Are hog carcasses which weigh less than 90 pounds, or are thin and unfinished, or have serious physical damage or injury, or are dark fleshed, rough, soft, or oily.

CANADA LIGHT — Are hog carcasses which have reasonably good quality and are not very thin or rough.

CANADA HEAVY — Are hog carcasses which have reasonably good quality; and are not very thin or rough.

CANADA EXTRA HEAVY — Are hog carcasses which have reasonably good quality; and are not very thin or rough.

CANADA RIDGLING — Are hog carcasses having one or more internal testicles, or are hermaphrodites.

CANADA STAG — Are hog carcasses from mature boars which have been castrated.

CANADA SOW — Class 1 — Are carcasses of female with pronounced mammary development having good fleshing and finish throughout, with no excess proportion of fat, and no excessive waste in the underline; and are not thin or rough.

CANADA SOW — Class 2 — Are carcasses of females with pronounced mammary development which are not eligible for Sow — Class 1.

**Weights and Measurements for the Grades for
Hog Carcasses**

Canada Grade	Carcass Weight	Minimum Length	Maximum Shoulder Fat	Maximum Loin Fat
GRADE A	135 lbs. or over but not over 150 lbs.	29-29½ ins.	1¾ ins.	1¼ ins.
	over 150 lbs. but not over 170 lbs.	29½-30 ins.	2 ins.	1½ ins.
GRADE B	125 lbs. or over but not over 150 lbs.	28-28¾ ins.	1¾-2¼ ins. ac- cording to wt.	1½-1¾ ins. ac- cording to wt.
	over 150 lbs. but not over 180 lbs.	29-30 ins.	2¼-2½ ins. ac- cording to wt.	1¾- 2 ins. ac- cording to wt.
GRADE C	125 lbs. or over but not over 180 lbs.			
GRADE D	All weights			
LIGHT	90 lbs. or over but less than 125 lbs.			
HEAVY	Over 180 lbs. but not over 195 lbs.			
EXTRA HEAVY	Over 195 lbs.			
RIDGLING	All weights			
STAG	All weights			
SOW — Class 1 — Class 2	All weights			

CORRESPONDING CARCASS WEIGHTS FOR LIVE HOG WEIGHTS AT VARIOUS YIELDS

Live Weight	DRESSING PERCENTAGE											
	70%	71%	72%	73%	74%	75%	76%	77%	78%	79%	80%	
170 lb.	119	121	122	124	126	127	129	131	133	134	136	
180 lb.	126	128	130	131	133	135	137	139	140	142	144	
190 lb.	133	135	137	139	141	142	144	146	148	150	152	
200 lb.	140	142	144	146	148	150	152	154	156	158	160	
210 lb.	147	149	151	153	155	157	160	162	164	166	168	
220 lb.	154	156	158	161	163	165	167	169	172	174	176	
230 lb.	161	163	166	168	170	172	175	177	179	182	184	
240 lb.	168	170	173	175	178	180	182	185	187	190	192	
250 lb.	175	177	180	182	185	187	190	192	195	197	200	

GRADES FOR LAMB CARCASSES

CANADA CHOICE—Carcasses having excellent conformation, finish and quality, relatively blocky and compact, with short, plump legs, broad thick backs, thick full loins, ribs and chucks and short plump necks; loins, ribs, legs and shoulders well covered but not excessively fat.

CANADA GOOD—Carcasses having good conformation, finish and quality; well proportioned and reasonably plump; loins, ribs, legs and shoulders well covered but not excessively fat.

CANADA COMMERCIAL—Carcasses having fair conformation, finish and quality; somewhat rangy and angular in conformation; having at least a moderately light fat covering which may be unevenly distributed; may include overfinished carcasses.

CANADA UTILITY—Carcasses having poor conformation, finish and quality, but having at least some traces of exterior fat covering; may include excessively overfinished carcasses.

CANADA CULL

1. Lacking finish, quality and general conformation.
2. Having serious physical injury.

3. Having spear-grass infestation.

4. Coarse and lacking in quality.

Male lambs which have not been castrated will be graded as above but will also be designated as "Bucks".

GRADES FOR MUTTON CARCASSES

CANADA CHOICE—Carcasses having excellent conformation, finish and quality, with short plump legs, thick loins and ribs, fully fleshed shoulders, and thick breast; a smooth, well distributed fat covering, interior fats plentiful; all fats cream colored and brittle, but not excessive or patchy.

CANADA GOOD—Carcasses having good conformation, finish and quality; well proportioned and reasonably plump; a fairly uniform fat covering which may be slightly deficient or slightly excessive, but not extremely fat or patchy.

CANADA COMMERCIAL—Fair conformation, finish and quality; may be comparatively narrow, lengthy and angular; some fat covering over the back, loins and rump.

CANADA UTILITY—Poor conformation, finish and quality; narrow, thinly fleshed, and lacking in finish; bone white and flinty; flesh coarse, soft or flabby.

CANADA MANUFACTURING—Excessively over-fat.

CANADA CULL—Culls, due to extremely poor finish and quality, usually from old ewes; or serious physical injury.

CANADA BUCK—Carcasses of mature male sheep.

WEIGHT CLASSES OF LAMB AND MUTTON CARCASSES

Lamb

Canada Choice and Canada Good.

Class 1—Not less than 36 lbs. and not more than 51 lbs.

Class 2—More than 51 lbs. and not more than 56 lbs.

Class 3—More than 56 lbs.

Class 4—Less than 36 lbs.

Canada Commercial.

Class 1—36 lbs. and over.

Class 2—Less than 36 lbs.

Lower Grades—All weights.

Mutton

Canada Choice and Canada Good.

Class 1—Not more than 70 lbs.

Class 2—More than 70 lbs. and not more than 85 lbs.

Class 3—More than 85 lbs.

Canada Commercial.

Class 1—Not more than 70 lbs.

Class 2—More than 70 lbs.

Lower Grades—All weights.

BUTTER AND CHEESE GRADES

The regulations governing the grading of creamery butter and cheese are administered by the Dairy Products Division, Production and Marketing Branch, Canada Department of Agriculture.

STANDARDS FOR GRADES OF CREAMERY BUTTER

Four grades of creamery butter are established with the following grade names:

- (a) Canada First Grade
- (b) Canada Second Grade
- (c) Canada Third Grade; and
- (d) Below Canada Third Grade.

Any butter in these designated grades shall contain not more than 16% water, not less than 80% milk fat and no fat other than that of milk.

CANADA FIRST GRADE — Flavour, clean with no objectionable flavour. Total score 92 — Minimum score for flavour, 39.

CANADA SECOND GRADE — Creamery butter that does not qualify for Canada First Grade and has the following flavour characteristics "Slightly unclean or slightly weedy, but no stinkweed or other pronounced weedy flavour, or other slight flavour defects". Total score 87 and under 92, minimum score for flavour, 37.

CANADA THIRD GRADE — Flavour very stale or other flavours too pronounced for Canada Second Grade butter and not classed as Below Canada Third Grade. Total score under 87.

BELOW CANADA THIRD GRADE — Any very objectionable flavours or with dirt or foreign matter or mold on or in the butter or otherwise inferior to Canada Third Grade. No score given.

STANDARDS FOR GRADES OF CHEESE

Four grades for cheddar cheese are established with the following grade names:

- (a) Canada First Grade
- (b) Canada Second Grade
- (c) Canada Third Grade; and
- (d) Below Canada Third Grade.

Any cheese in these designated grades shall contain, on a dry basis, not less than 50% milk fat, no fat other than that of milk. (In addition, grades for cheddar cheese are now related to the test for extraneous matter.)

CANADA FIRST GRADE — Flavour — clean with no objectionable flavour. Total score 92 — Minimum score for flavour, 39. — Extraneous disc 1 or 2.

CANADA SECOND GRADE — Cheese that does not qualify for Canada First Grade and has a fruity, or not clean, or slightly rancid, or slightly off or "off" or turnip-like, or otherwise objectionable flavour. Total score 87 and under 92, minimum score for flavour, 37. — Extraneous disc 3.

CANADA THIRD GRADE — Flavour — rancid or badly "off" or otherwise inferior to Canada Second Grade, excluding the flavours characteristic of cheese Below Canada Third Grade. Total score under 87. Flavour under 37. — Extraneous disc 4.

BELOW CANADA THIRD GRADE — Any very objectionable flavour such as very sour, gasoline, kerosene, garlic, stinkweed or other strong weedy flavour comparable to stinkweed, seriously contaminated by vermin or otherwise and inferior to Canada Third Grade, or which contains foreign matter. No score given.

NOTE—For exact grade definitions and standards of butter, cheese and dry skim milk and standards for ice cream, please refer to Regulations under the Canada Dairy Products Act, proclaimed the 15th of July, 1952.

CREAM GRADES

Cream grading regulations are under Government jurisdiction. They are administered within each province by the respective Provincial Departments of Agriculture.

The following grade names apply to the grading of cream for purchases at creameries in the three prairie provinces. Actually the wording of the

grade descriptions varies slightly in different provinces, but is similar in effect. Manitoba does not have Table Cream classified in their regulation.

TABLE CREAM includes any lot of cream (1) that is sweet, clean flavored and non frozen, (2) that is bought for resale for household use, (3) that is produced under conditions that comply with a special requirement of the municipality in which it is to be sold for consumption, and (4) that has an acidity of not more than twenty one hundreds of one per cent (.20%) at the time of grading.

SPECIAL GRADE shall include any lot of cream (1) that is clean in flavor and of uniform consistency and non frozen; and (2) that has a content of lactic acid not exceeding thirty one hundreds of one per cent (.30%) at the time of grading.

FIRST GRADE, which shall include any lot of cream (1) that does not meet the requirements specified for Special Grade cream; (2) that is reasonably clean in flavor and of uniform consistency; (3) that is suitable for making into Canada First Grade butter; and (4) that has a content of lactic acid not exceeding sixty one hundreds of one per cent (.60%) at the time of grading; or (5) that if slightly frozen, will melt to a uniform consistency.

SECOND GRADE, which shall include any lot of cream that does not meet the requirements specified for First Grade cream, such as cream that is stale, metallic, unclean, bitter, weedy or cream that has been badly separated as a result of being frozen.

OFF GRADE includes any lot of cream with a very objectionable odor or flavor such as kerosene, gasoline, stinkweed, onions or other such flavor that may render cream unfit for making into Second Grade butter. (Alberta and Saskatchewan only.)

Churning Cream. Special, First and Second Grades of cream are the general grades used for churning butter.

Cream shall be rejected if in the opinion of a licensed grader or inspector it (a) is unsanitary; or (b) contains any contaminating or foreign substance; or (c) appears unfit for human consumption; or (d) is shipped in a container that has been

rejected; or (e) that has an objectionable odor or flavor, such as kerosene, gasoline or other flavor that may render it unsuitable for manufacturing into Canada Second Grade butter. (Manitoba and Alberta).

A cream Grader or Inspector who rejects cream at a dairy manufacturing plant shall (a) attach to the container a tag showing the reason for rejection; (b) add a harmless coloring matter to the cream and (c) return the cream to the patron.

STANDARDS FOR MILK FOR MANUFACTURING PURPOSES

GRADE I milk shall be sweet and clean in flavour and odour; be of uniform consistency; be free from evidence of blood or impurities due to mastitis, sickness, or other contamination; contain no antibiotics or pesticide residue; contain less than 1.0 mg. of sediment per every sixteen fluid ounces by weight determined by an approved test; and have a reduction time of two hours or more by the triple reading resazurin test.

GRADE II milk shall conform to the standards set out for Grade I milk except that it shall contain less than 2.0 mg. of sediment per every sixteen fluid ounces by weight determined by an approved test; and have a reduction time by the triple reading resazurin test of one to two hours.

Every dairy barn shall conform to the following standards: be provided with adequate lighting and ventilation; be kept clean at all times; have bedding that is fresh, clean, dry and free from excessive dust; house no swine or fowl; and be provided with a separate area for use only as an area for the handling of milk and cream.

Every patron or person owning or having control of a place or premises where milk is produced or handled shall keep such place or premises free from insects and rodents.

No patron shall use milk handling equipment unless it is thoroughly cleansed of all dirt and milk deposits and is sanitized with an approved sanitizer.

HONEY GRADES

The honey grading regulations are administered by the Fruit and Vegetable Division of the Production and Marketing Branch, Canada Department of Agriculture. Under these regulations it is compulsory for every person who packs, transports, ships, advertises, displays, sells, has in his possession for

sale, or offers for sale, to grade, pack in prescribed standard containers and to properly and legibly mark the containers and packages as required by the Honey regulations.

CANADA NO. 1 (in liquid form) — Shall have not more than 19.0 per cent moisture content if declared pasteurized or 17.8 per cent moisture if not so declared; is clean in appearance and free from any foreign material that would be retained on a U.S. standard 80-mesh screen; is clear, bright and uniform in colour, free from visible crystals and surface froth or foam exceeding 1/16 of an inch in depth at the edges of the container; has a flavour characteristic of honey of the same class and is free from any objectionable flavour, aroma or taint, and; is packed and marked in accordance with Parts II and III of the regulations.

CANADA NO. 1 (in granulated form) — Shall have not more than 19.0 per cent moisture content if declared pasteurized or 17.8 per cent moisture content if not so declared; is clean in appearance and free from stain and is free from any foreign material that would be retained on a U.S. standard 80-mesh screen; has a smooth, fine texture and complete and uniform granulation; is uniform in colour and free from surface froth or foam exceeding 1/16 of an inch in depth; has a flavour characteristic of honey of the same class and is free from any objectionable flavour, aroma, or taint, and is packed and marked in accordance with Parts II and III of the regulations.

CANADA NO. 2 (in liquid form) — Shall have not more than 20.0 per cent moisture content if declared pasteurized or 18.6 per cent moisture content if not so declared; is reasonably clean in appearance and free from any foreign material that would be retained on a U.S. standard 60-mesh screen; is free from surface froth or foam exceeding three-sixteenths of an inch in depth at the edges; has a colour that may be dull and cloudy or turbid or slightly uneven; shows not more than slight signs of crystallization in the form of a light suspension or minor sedimentations of crystals; has a flavour that may be "slightly off", but is not materially impaired in any respect, and; is packed and marked in accordance with Parts II and III of the regulations.

CANADA NO. 2 (in granulated form) — Shall have not more than 20 per cent moisture content if declared "pasteurized" or 18.6 per cent moisture if not so declared; is generally attractive in appearance and is free from any foreign material that would be retained on a U.S. standard 60-mesh screen; has a texture that may be medium, coarse or gritty, but not very coarse or very gritty, and has a complete and fairly uniform granulation; is not more than slightly uneven in colour; free from surface froth or foam exceeding $\frac{1}{8}$ of an inch in depth at the edges; has a flavour that may be "slightly off", but is not materially impaired in any respect, and; is packed and marked in accordance with Parts II and III of the regulations.

CANADA NO. 3 (in liquid form) — Shall have not more than 20 per cent moisture content; is reasonably clean in appearance and is free from any foreign material that would be retained on a U.S. standard 30-mesh screen; is free from surface froth or foam exceeding one-quarter of an inch in depth at the edge; has a colour that may be very dull and cloudy, or turbid or uneven; although mainly liquid, may show advanced crystallization in the form of heavy suspension or obvious sedimentation of crystals, has a flavour that may be "off", but is not materially impaired in any respect, and; is packed and marked in accordance with Parts II and III of the regulations.

CANADA NO. 3 (in granulated form) — Shall have not more than 20 per cent moisture content; is free from foreign material that would be retained on a U.S. standard 30-mesh screen, Whether or not the honey is unattractive in appearance; contains no particles of which the greatest dimension exceeds one-quarter of an inch; has a texture that may be very coarse or very gritty; has a granulation that may be incomplete and uneven, freely fluid, and showing separation at the surface; has a colour that may be uneven; is free from surface froth or foam exceeding one-quarter of an inch in depth; has a flavour that may be "off", but is not materially impaired in any respect, and; is packed and marked in accordance with Parts II and III of the regulations.

VEGETABLE GRADES

The vegetable grading regulations are administered by the Fruit and Vegetable Division of the Production and Marketing Branch, Canada Department of Agriculture. Under these regulations the grade name shall not be used in connection with produce unless the produce is packaged and marked according to regulations as set forth under Part II and Part III of the Fresh Fruit and Vegetable Regulations.

POTATO GRADES

CANADA NO. 1 — Are potatoes of similar varietal characteristics; firm; not materially pointed, materially dumbbell-shaped or otherwise materially deformed; have skins that will not loosen readily during ordinary handling; not more than 10 per cent of which more than 10 per cent of the surface flesh exposed; reasonably clean; free from dumbbells, specimens from which knobs have been removed, blight, hollow heart, sprain, bacterial ring rot or other decay; free from damage; for round varieties a minimum diameter of $2\frac{1}{4}$ inches and a maximum diameter of $3\frac{1}{2}$ inches and for long varieties a minimum diameter of 2 inches and a maximum diameter of $3\frac{1}{2}$ inches except that for potatoes exceeding $3\frac{1}{2}$ inches in length the minimum diameter may be $1\frac{3}{4}$ inches; and are properly packed.

CANADA NO. 1 LARGE — Are potatoes that have a minimum diameter of 3 inches and a maximum diameter of $4\frac{1}{2}$ inches but that in all other respects comply with the requirements of Canada No. 1 Grade.

CANADA NO. 1 SMALL — Are potatoes that have a minimum diameter of $1\frac{1}{2}$ inches and a maximum diameter of $2\frac{1}{4}$ inches but that in all other respects comply with the requirements of Canada No. 1 Grade.

CANADA NO. 2 — Are potatoes of similar varietal characteristics; reasonably firm; not seriously pointed, seriously dumbbell-shaped or otherwise seriously deformed; free from dumbbells, specimens from which knobs have been removed, sprain, hollow heart, bacterial ring rot or other decay; free from damage; have a minimum diameter of $1\frac{3}{4}$ inches and a maximum diameter of $4\frac{1}{2}$ inches; have at least 75 per cent of the lot with a diameter of not less than 2 inches; not more than one-third by weight of which are

seriously affected by dirt; and are properly packed.

NEW POTATOES shall meet the size requirements of Canada No. 1 except that those potatoes otherwise required to be of minimum diameter of 2 inches or $2\frac{1}{4}$ inches may be of a minimum diameter of $1\frac{7}{8}$ inches.

BEET GRADES

CANADA NO. 1 — Are beets that have similar varietal characteristics; are not soft, flabby, shrivelled or woody in texture; are not trimmed into the shoulder but are so trimmed that the length of the tops of 75 per cent of the beets does not exceed $\frac{1}{2}$ of an inch and the length of the tops of the other beets does not exceed 1 inch are not rough, ridged or misshapen; have the shape characteristic of the variety; are reasonably clean; are free from decay; are free from any injury or defect or a combination thereof, other than an injury or defect referred to above, that materially affects their appearance, edibility or shipping quality, or cannot be removed without a loss of more than 5 per cent of the total weight of a beet; have a minimum diameter of $1\frac{1}{4}$ inches and a maximum diameter of 3 inches, or a minimum diameter of 1 inch and (a) conform to a size range marked on the package in which they are packed or on a tag attached thereto, (b) are packed in a transparent package, or (c) are in a bulk display in a retail store; and are properly packed.

CANADA NO. 2 — Are beets that have similar varietal characteristics; are not soft, flabby, shrivelled or woody in texture; are trimmed so that the tops do not exceed one inch in length but are not trimmed into the shoulder of the beet; are not deformed to the extent that the appearance of the beet is seriously affected; are free from decay; are free from any injury or defect or a combination thereof, other than an injury or defect referred to above that seriously affects their appearance, edibility or shipping quality, or cannot be removed without a loss of more than 10 per cent of the total weight of a beet; have a minimum diameter of $1\frac{1}{4}$ inches, or a minimum diameter of 1 inch and (a) conform to a size range marked on the package in which they are packed or on a tag

attached thereto, (b) are packed in a transparent package, or (c) are in a bulk display in a retail store.

CARROT GRADES

CANADA NO. 1 — Are carrots that have similar varietal characteristics; are not soft, flabby, broken, shrivelled or woody in texture; are not trimmed into the crown but are so trimmed that the length of the tops of 75 per cent of the carrots does not exceed $\frac{1}{2}$ of an inch and the length of the tops of the other carrots does not exceed 1 inch, are not rough, forked or misshapen and not materially affected by secondary rootlets; are reasonably clean; are free from sunburn that extends more than $\frac{1}{2}$ of an inch below the outer edge of the crown, or affects more than 10 per cent of the carrots in the lot, provided that sunburn affecting only the crown and not extending downward from the outer edge of the crown will not be considered; are free from decay; are free from any injury or defect or a combination thereof, other than an injury or defect referred to above that materially affects their appearance, edibility or shipping quality, or cannot be removed without a loss of more than 5 per cent of the total weight of the carrot; have a minimum length of $3\frac{1}{2}$ inches; have a minimum and maximum diameter as specified if packed in packages on which the minimum and maximum diameter is marked, but in no case shall the minimum diameter so marked be less than $\frac{3}{4}$ of an inch; a minimum diameter of $1\frac{1}{2}$ inches or greater if packed in a package marked with the words " $1\frac{1}{2}$ inches and up" or as the case may be; a minimum diameter of $\frac{3}{4}$ of an inch if packed in a transparent package or if in a bulk display in a retail store; a minimum diameter of 1 inch and a maximum diameter of $1\frac{3}{4}$ inches in all cases not referred to above; and are properly packed.

CANADA NO. 1 — CUT CROWNS — Are carrots that have had their crowns or shoulders removed but which in all other respects meet the requirements of Canada No. 1 Grade.

CANADA NO. 2 — Are carrots of the same general type; not soft, flabby, shrivelled or woody in texture; trimmed so that the tops do not exceed

1 inch in length but are not trimmed into the crown; not forked or deformed to the extent that the appearance of the carrots is seriously affected; free from sunburn extending more than 1 inch from the crown; free from decay; free from any injury or defect or a combination thereof, other than an injury or defect referred to above that seriously affects their appearance, edibility or shipping quality, or cannot be removed without a loss of more than 10 per cent of the total weight of a carrot; have a minimum diameter of 1 inch and a minimum length of 3½ inches; and are properly packed.

ONION GRADES

CANADA NO. 1 — Are onions that have similar varietal characteristics; cured so that the neck is well dried; firm; free from thick necks, seed stems, root growth, sprouts and decay; free from specimens the shape of which clearly indicates more than one centre of growth; free from damage; have, when one of the additional grade designations is not used in connection with the onions, a minimum diameter of 1¾ inches and a maximum diameter of 3 inches, or a minimum diameter of 1¾ inches and (a) conform to a size range marked on the package in which they are packed, or on a tag attached thereto, (b) are packed in a transparent package, or (c) are in a bulk display in a retail store, are properly packed. Additional grade designations: "Small" — minimum diameter of 1¼ inches and a maximum diameter of 1¾ inches; "Jumbo" — minimum diameter of 3 inches; in the case of onions having a minimum diameter of 2¼ inches or greater the size may be designated as "2¼ inches and up", or as the case may be.

CANADA NO. 1 PICKLING — Are onions that have similar varietal characteristics; cured so that the neck is moderately dried; yield only slightly to moderate pressure; free from thick necks, seed stems, root growth, sprouts, ovoid specimens and decay; free from specimens the shape of which clearly indicates more than one centre of growth; free from damage; have a minimum diameter of ½ inch and a maximum diameter of 1 inch, or a minimum of ½ of an inch and a maximum diameter of 1½ inches and are packed in a package on which is marked the designation "½ inch to 1½ inches" or an abbreviation thereof; and are properly packed.

CANADA NO. 2 — Are onions that have similar varietal characteristics, cured so that the neck is moderately dried; yield only slightly to moderate pressure; free from thick necks, seed stems and decay; free from specimens the shape of which clearly indicates more than one centre of growth; free from damage; have a minimum diameter of $1\frac{3}{4}$ inches; and are properly packed.

NEW ONIONS — Prior to September 16, onions grown during that year that are cured so that the neck is moderately dry and yield only slightly to moderate pressure, but that comply with all other requirements of Canada No. 1 Grade, shall be deemed to meet the requirements of Canada No. 1 Grade.

PARSNIP GRADES

CANADA NO. 1 — Are parsnips that have similar varietal characteristics; firm and not woody in texture; are not trimmed into the crown but are so trimmed that the length of the tops of 75 per cent of the parsnips does not exceed $\frac{1}{2}$ of an inch and the length of the tops of the other parsnips does not exceed 1 inch; fairly smooth; free from secondary rootlets that materially affect their appearance; not turnip-shaped or so forged or misshapen as to materially affect their appearance; reasonably clean; free from decay; free from any injury or defect or a combination thereof, other than an injury or defect referred to above, that materially affects their appearance, edibility or shipping quality, or cannot be removed without a loss of 5 per cent by weight of a parsnip; have a minimum length of 5 inches, and (1) a minimum diameter of $1\frac{1}{4}$ inches and a maximum diameter of 3 inches, (2) a minimum diameter of $1\frac{3}{4}$ inches or greater if packed in a package marked with the words " $1\frac{3}{4}$ inches and up", or as the case may be, or (3) a minimum diameter of $1\frac{1}{4}$ inches and (a) conform to a size range marked on the package in which they are packed, (b) are packed in a transparent package, or (c) are in a bulk display in a retail store; and are properly packed.

CANADA NO. 1 — CUT CROWNS — Are parsnips that have had their crowns or shoulders removed but that in all other respects meet the requirements of Canada No. 1 grade.

CANADA NO. 2 — Are parsnips that have similar varietal characteristics; firm and not woody in texture; are trimmed so that the tops do not exceed 1 inch in length but are not trimmed into the crown; not so badly forked or misshapen that their appearance is seriously affected; free from decay; free from any injury or defect or a combination thereof, other than an injury or defect referred to above that seriously affects their appearance, edibility or shipping quality, or cannot be removed without a loss of more than 10 per cent by weight of a parsnip; have a minimum diameter of 1¼ inches and a minimum length of 4 inches; and are properly packed.

RUTABAGAS GRADES

CANADA NO. 1 — Are Rutabagas (waxed or unwaxed) that have similar varietal characteristics; firm; reasonably regular in contour and of a length not more than 1½ times the diameter; trimmed so that the tops do not exceed ¾ of an inch and all green leafy growth removed, and secondary roots, rootlets and any objectionable part of the root removed; not trimmed on the upper half of the root, or deeply into the flesh on the lower half of the root or so as to alter the general shape of the root or to materially detract from the appearance; free from decay. are free from insects and insect larva; free from damage; have, when in a package, a minimum and maximum diameter as marked on the package or on a tag attached thereto: Sizes — Small, 2 to 4 inches; Small Medium, 3 to 5½ inches until August 31 and do not vary more than 2 inches in diameter (after August 31, 3½ to 5 inches); Medium, 4 to 6 inches; Large, 5 to 7 inches; and are properly packed.

CABBAGE GRADES

CANADA NO. 1 — Are cabbages that have similar varietal characteristics; have, in the case of other than savoy type, heads that yield only slightly to pressure; have, in the case of savoy type, heads that are not soft; trimmed so that the butts are not longer than ½ inch, that all outer leaves injured by worms, disease or other means are removed and there are not more than 6 wrapper leaves per head; free from heads that are withered or burst; free from heads that

plainly show the formation of the seed stalk; free from decay; free from any injury or defect or a combination thereof, other than an injury or defect referred to above, that materially affects their appearance, edibility or shipping quality; do not, when in a package, vary more than 2 inches in diameter; and are properly packed.

CANADA NO. 2 — Are cabbages that have similar varietal characteristics; trimmed so that the stems are not longer than $\frac{1}{2}$ inch and there are not more than 6 wrapper leaves per head; free from heads that are soft, withered or burst; free from heads that plainly show the formation of the seed stalk; free from decay; free from any injury or defect or a combination thereof, other than an injury or defect referred to above, that seriously affects their appearance, edibility or shipping quality, or cannot be removed without the loss of more than 15 per cent of the edible portion of a head; and are properly packed.

CAULIFLOWER GRADES

CANADA NO. 1 — Are cauliflowers that have compact heads; wrapper leaves that are fresh and green and not damaged or unsightly; have had superfluous leaves removed but the heads of which are, unless individually wrapped, protected by a ring of wrapper leaves; free from heads of abnormal colour or of a loose or granular appearance commonly known as "riciness"; free from decay; free from damage; have a minimum head diameter of 4 inches; do not, when in a package, vary more than 2 inches in diameter; and are properly packed.

CANADA NO. 2 — Are cauliflowers that have fairly compact heads; free from heads of abnormal colour; free from decay; free from any injury or defect or a combination thereof, other than an injury or defect referred to above, that seriously affects their appearance, edibility or shipping quality, or cannot be removed without altering the shape of a head; and are properly packed.

SWEET CORN GRADES

CANADA NO. 1 — Is Sweet Corn that has similar varietal characteristics; free from ears that are misshapen or stunted in growth; has ears on

which the undeveloped ends do not exceed one-quarter of the length of the ear, the appearance and quality of the edible portion is not affected by poorly developed rows, kernels that are tender, plump and milky, and rows of kernels that are of fairly uniform development; well covered with fresh, unbroken green husks or, if the husks have been removed, is protected by transparent wrappers; free from any injury or defect or a combination thereof, other than an injury or defect referred to above that materially affects its appearance, edibility or shipping quality; minimum of 4 inches of edible corn on each ear; and is properly packed.

Packages containing Canada No. 1 grade shall have marked thereon or on a tag attached thereto the word "Small" which shall have a minimum of 4 inches and a maximum of 6 inches of kernels of edible corn, and "Large" which shall have a minimum of 5 inches of edible kernels. Ears may be trimmed at the tassel end if the trimming does not result in the removal of all evidence of tapering of the ear.

HEAD LETTUCE GRADES

CANADA NO. 1 — Is Head Lettuce that has similar varietal characteristics; head leaves that are crisp and wrapper leaves that are not more than slightly wilted; has, in the case of Iceberg type, heads that are compact and yield only slightly to pressure; has, in the case of Big Boston type, heads that are fairly compact; trimmed so that the butt is cut off close to the point of attachment of the wrapper leaves and any coarse, damaged or otherwise objectionable wrapper leaves have been removed, and in the case of Iceberg type, so that the heads do not have more than 8 wrapper leaves; free from split or burst heads; free from heads that plainly show the formation of the seed stem; free from heads the shape of which clearly indicates more than one centre of growth; free from decay, tipburn and brown blight; free from any injury or defect or a combination thereof, other than an injury or defect referred to above that materially affects its appearance, edibility or shipping quality; does not, when in a package, vary more than 2 inches in diameter; and is properly packed.

CANADA NO. 2 — Is Head Lettuce that has similar varietal characteristics; head leaves that are crisp and wrapper leaves that are not more than slightly wilted; has, in the case of Iceberg types, heads that show characteristic formation and are not soft; trimmed so that the butt is cut off close to the point of attachment of the outer leaves and any coarse leaves have been removed and, in the case of Iceberg type, so that the heads do not have more than 8 wrapper leaves; free from split or burst heads; free from heads that plainly show the formation of the seed stem; free from heads the shape of which clearly indicates more than one centre of growth; free from decay, tipburn and brown blight; free from any injury or defect or a combination thereof, other than an injury or defect referred to above, that seriously affects its appearance, edibility or shipping quality, or cannot be removed without a loss of some of the solid portion of the head; and is properly packed.

FIELD TOMATO GRADES

CANADA NO. 1 — Are Field Tomatoes that are sound and clean; have similar varietal characteristics; not noticeably ridged, angular or indented; are, in any individual package, of one of the following states of development: "mature", "turning", "semi-ripe" or "firm-ripe"; free from disease, scald, water blisters, bruises, soft areas, decay or open wet cracks; free from damage; have a minimum diameter of 2 inches, and when packed in a closed package, a maximum variation in diameter of 1 inch, or a minimum diameter of 1½ inches and a maximum diameter of 2 inches and are packed in a package on which is marked the words "Small" or "1½ to 2 inches"; and are properly packed.

CANADA NO. 2 — Are Field Tomatoes that are sound and reasonably clean; have similar varietal characteristics; are, in any individual package, of one of the following states of development: "mature", "turning", "semi-ripe" or "firm-ripe"; free from decay, water blisters and open wet cracks; are not so misshapen or deformed as to seriously affect their appearance; free from damage; have a minimum diameter of 1¾ inches; and are properly packed.

SPECIFICATIONS FOR HATCHING EGGS

The regulations governing the grading of hatching eggs are administered by the Poultry Division, Production and Marketing Branch, Canada Department of Agriculture, Ottawa.

Chicken and turkey hatching eggs shall be clean, sound in shell, and of good shell strength.

All hatching eggs must be produced from hatching egg supply flocks that have been approved and accepted under the regulations of the Provincial Hatchery Supply Flock Policy.

CLASSIFICATION OF CHICKS AND POULTS

The regulations governing the production of chicks and poults sold by hatcheries are administered by the Poultry Division, Production and Marketing Branch, Canada Department of Agriculture, Ottawa.

The following terms are prescribed for classification of chicks or poults:

- (1) Egg-type chicks — meaning chicks purchased for the production of eggs.
- (2) Broiler-type chicks — meaning chicks which will be marketed as broilers or fryers at approximately eight to ten weeks of age.
- (3) Broiler-type poults — meaning poults which will be marketed at approximately 16 weeks of age and weighing not more than 10 pounds eviscerated weight.
- (4) Meat-type poults — meaning poults that will be marketed at mature weights.

SUMMARY OF GRADE STANDARDS FOR SHELL EGGS

The Egg Regulations are administered under the Canada Agricultural Products Standards Act
Production and Marketing Branch Canada Department of Agriculture, Ottawa

Grade	Weight Per dozen	Cleanliness and Soundness of Shell	Quality as Determined by Candling		
			Air Cells	Yolk Condition	Spots
A1—Extra Large Size Large Size Medium Size Small Size	The egg weighs at least 2¼ ozs. Each egg weighs at least 2 ozs. Each egg weighs at least 1¾ ozs., but less than 2 ozs. Each egg weighs at least 1½ ozs., but less than 1¾ ozs.	Clean, unbroken, normal in shape.	Not in excess of one-eighth of an inch in depth and is immobile.	An indistinct yolk shadow, a small round yolk which maintains its position in the central part of the egg. Absence of mottled or grass yolks, visible germ spots.	No blood or meat spots.
A—Extra Large Size Large Size Medium Size Small Size Peewee Size	The egg weighs at least 2¼ ozs. Each egg weighs at least 2 ozs. Each egg weighs at least 1¾ ozs., but less than 2 ozs. Each egg weighs at least 1½ ozs., but less than 1¾ ozs. Each egg weighs less than 1½ ozs.	May have up to three stain spots if each spot does not exceed an area equivalent to one-eighth of an inch by one-sixteenth of an inch and is otherwise clean, is practically normal in shape but may have rough areas and ridges other than heavy ridges, sound in construction.	An air cell that is not floating and is not in excess of three-sixteenths of an inch in depth.	An indistinct yolk outline. A round yolk which is reasonably well centered. Absence of mottled or grass yolks, germ development.	No blood or meat spots.

SUMMARY OF GRADE STANDARDS FOR SHELL EGGS (Cont.)

Grade	Weight Per dozen	Cleanliness and Soundness of Shell	Quality as Determined by Candling		
			Air Cells	Yolk Condition	Spots
B—	The egg weighs at least 1¾ ozs.	May show spots of dirt if the aggregate area of the dirt does not exceed one-sixteenth square inches and stain spots if the aggregate area of the stains does not exceed one-half square inch. May be slightly abnormal in shape, rough areas, definite ridges, sound in construction.	Not in excess of three-eighths of an inch in depth.	May show a distinct yolk outline. May show yolk which is moderately oblong in shape and which floats freely within the egg when twirled. Absence of grass yolks or any congealed albumen, but may have very slight degree of germ development.	No blood or meat spots.
C—	No minimum or maximum weight.	May be dirty or stained, irregular in construction. Shell free of cracks.	No maximum air cell size. Floating air cells permitted.	May show a prominent yolk outline. May show a yolk which is definitely oblong in shape but which does not adhere to the shell membrane. Shows absence of dark grass yolk.	Does not show meat or blood spots in excess of one-eighth of an inch in diameter.

NOTE: Cracks—The shell is cracked but the internal contents are not leaking, and on candling, the egg meets the standards for at least Canada Grade C.
Rejects—Are eggs which are not eligible for any of the grades and include the following: Eggs contaminated with odours foreign to that of normal eggs; musty or mouldy eggs; eggs that have been in an incubator; and eggs that have the following defects — Black Rot, Blood Clot, Blood Ring, Bloody Eggs, Mixed Rot or Red Rot, Sour Rot, Spot Rot, White Rot, and foreign material.

Note—2¼ ounces per egg is equivalent to 27 ozs. per doz.
 2 ounces per egg is equivalent to 24 ozs. per doz.
 1¾ ounces per egg is equivalent to 21 ozs. per doz.
 1½ ounces per egg is equivalent to 18 ozs. per doz.

Optional Grades — Canada Grade A Small Size and Canada Grade A Peewee Size may be graded as Grade C.

CANADIAN STANDARD POULTRY GRADES
 The Dressed and Eviscerated Poultry Regulations are Administered Under the Canada
 Agricultural Products Standards Act, Production and Marketing Branch, Canada Department of Agriculture, Ottawa

FAC- TOR	CANADA GRADE SPECIAL	CANADA GRADE A	CANADA GRADE B	CANADA GRADE UTILITY	CANADA GRADE C	CANADA GRADE D
C O N F O R M A T I O N	Normal Turkeys—Wing Tips may be removed. (All Grades)	Normal Slightly Crooked Keel — No meat interference.	Normal Slightly Crooked Keel—Meat at any point not lower than Grade B.	Wings—Completely or partially removed. Legs—Only one leg with thigh "or" both drumsticks removed. Tail, Removed at base. Limbs—Severed at joints only.	Carcass — Whole	Carcass — Whole
	Breast—Plump-full. Slight Taper. Keel bone not to project more than 1/16" beyond flesh at Anterior end.	Moderately Plump — Moderate taper. Maximum projection Keel Anterior end — 1/8"—	Sufficient to prevent sharp falling away from keel. Maximum projection of Keel — 1/8"	At least Grade B. Except small portion of flesh may be missing.	Sufficient to prevent extremely sharp falling away from keel. Max. keel projection—3/16".	Some flesh on both sides of keel
	Capons, Fowl, Turkeys (O) Ducks, Geese—Breast, thighs, back well covered. Chicken — Thick deposit extending from base of neck into "V". Fat showing on rest of bird. Turkeys (U) — Breast, thighs back, reasonably well covered. Turkeys — No flabbiness.	Capons, Fowl, Ducks, Geese—Breast, thighs, back reasonably well covered. Chicken — Definite deposit base of neck extending unbroken in "V". Evidence over breast, thighs. Turkeys, (U) - Moderate covering over breast, thighs, back. Turkeys (*O) Breast, thighs reasonably well covered. Back moderately covered. Turkeys — Slight flabbiness.	Sufficient to prevent dark red appearance. Canada Grade A (Fat Continued) Turkeys (O) - feather tract on side of breast, pronounced thickening of fat. Feather tract on back, sufficient fat for smooth appearance.	At least Grade B		
F L E S H						
F A T						

Tears	Kind	Wts	Breast	Else-where
	Chicken	(L)	1- $\frac{1}{4}$ "	2- $\frac{1}{4}$ "
	Fowl Chicken Capons Ducks	(H)	1- $\frac{1}{4}$ "	2- $\frac{1}{2}$ "
	Geese		1- $\frac{1}{4}$ "	2- $\frac{3}{4}$ "
	Turkeys	(U) (O)	1- $\frac{1}{4}$ " 1- $\frac{1}{4}$ "	2- $\frac{1}{2}$ " 2- $\frac{3}{4}$ "
PINS	Breast 4		Elsewhere 8	
	No prominent discoloration			
D I S C O L O R A T I O N				

CANADIAN STANDARD POULTRY GRADES (Cont.)

FAC- TOR	CANADA GRADE SPECIAL	CANADA GRADE A	CANADA GRADE B	CANADA GRADE UTILITY	CANADA GRADE C	CANADA GRADE D
Freezer Burn	Slight surface desiccation	Surface desiccation max. area — 2¼ sq. in.	Area of deep pitted desic- cation max. 2¼ sq. in. Turkeys 4 sq. in.	Same as Grade B	Allowed	Allowed
Dried Out Areas	NONE	NONE	Allowed	Allowed	Allowed	Allowed
Cysts	NONE	NONE	One small loose not dis- colored cyst.	Same as Grade B	No discolored cysts.	—
Broken Bones	NONE	NONE	NONE	Dislocated or broken wing or leg bones. Allowed	Allowed	Allowed

CODED WEIGHTS TABLE

Weight Range		Weight Range	
Chicken "L"	Under 4½ lbs. Dressed Under 4 lbs. Eviscerated	Turkeys "U"	Under 11 lbs. Dressed Under 10 lbs. Eviscerated
	Over 4½ lbs. Dressed Over 4 lbs. Eviscerated		Over 11 lbs. and under 18 lbs. Dressed Over 10 lbs. and under 16 lbs. Eviscerated
Chicken "H"		Turkeys "O"	
		Over 18 lbs. Dressed Over 16 lbs. Eviscerated	

WOOL GRADES

The Wool Grading Regulations are administered by the Livestock Division.
Production and Marketing Branch, Canada Department of Agriculture, Ottawa.

GRADE STANDARDS

GRADE	WESTERN CANADA RANGE TYPE				WESTERN CANADA DOMESTIC TYPE		
	Choice X	Choice	Average X	Average	Bright	Semi-Bright	Dark
CANADA FINE STAPLE	Wool that is high yielding, bright and attractive in appearance. It must be well grown, sound, of good combing length, uniform in quality and practically free from visible earthy matter.	Wool must be well grown and attractive, sound and fairly uniform. Must be comparatively free from earthy matter.	Wool must be generally well grown but may contain some weathered tips and some earthy material. Heavier shrinking and darker in appearance than Choice.	Dark looking and heavy or very badly weathered and wasty. Usually contains a considerable amount of sand and dust.	Fleeces that are well grown with good colour and very light shrinking.	Fleeces that are average in character, rather dingy in appearance and carrying slightly more organic matter.	Fleeces that are dark coloured and quite heavy with sand or any other foreign material. Also includes wools that are badly "timber stained" or fleeces that are brashy and wasty.
CANADA FINE CLOTHING							
CANADA 1/2 STAPLE							
CANADA 1/2 CLOTHING							
CANADA 3/8 STAPLE							
CANADA 3/8 CLOTHING							
CANADA 1/4 STAPLE							
CANADA LOW 1/4 STAPLE							
CANADA COARSE							
CANADA GREY-BLACK							
Fine, Medium, Coarse							
CANADA DEFECTIVE							
Chaff or Burry—							
Light—Fine, Medium Heavy							
Tags—Fine, Medium							
Cotts—Soft, Hard							
Locks—Fine, Medium							
Dead—Fine, Medium							
Damaged							

WESTERN CANADA RANGE TYPE—Wool produced under range conditions in the four western provinces of Canada (predominantly Fine and 1/2 Staple—5's, 60s, 64s and up), and also occasional Fine and 1/2 Staple fleeces from farm flocks of Western Canada.

WESTERN CANADA DOMESTIC TYPE—Wool produced under farm conditions in Western Canada (predominantly 3/8 Staple and 1/4 Staple).

FOX PELT GRADES

The silver fox grading regulations are administered by the Livestock Division, Production and Marketing Branch, Canada Department of Agriculture.

STANDARD SILVER and WHITE — MARKED SILVER

Colour Phases:

DARK means less than 40 per cent of the area of the back of the pelt is covered with silver guard hairs.

HALF SILVER means 40 per cent to 60 per cent of the area of the back of the pelt is covered with silver guard hairs.

THREE-QUARTER SILVER means over 60 per cent to 80 per cent of the area of the back of the pelt is covered with silver guard hairs.

SILVERY means over 80 per cent to 95 per cent of the area of the back of the pelt is covered with silver guard hairs.

FULL SILVER means over 95 per cent of the area of the back of the pelt is covered with silver guard hairs.

GRADES:

CANADA SELECT—Pelts of extra good quality evenly furred, densely silvered (having regard to colour phase) of reasonably clear colour, primeness and character, and with only minor weaknesses permitted.

CANADA GRADE A—Pelts of good quality, character, and colour, with guard hair and underfur blending.

CANADA GRADE B — Pelts of average quality and character. They may be slightly off colour.

CANADA GRADE C — Pelts of fair quality, they may be open, weak furred, somewhat off colour and lacking in character.

CANADA GRADE D — Pelts of poor quality throughout and definitely lacking in character.

REJECT—Pelts of extremely low quality throughout, including culls and samsons.

NEW TYPES

Description:

PLATINUM — Pelts of a whitish steel grey colour with a sparse intermingling of dark hairs, the underfur having a light bluish grey shade, blending with the guard hairs, giving a rich platinum effect.

PEARL PLATINUM—Pelts of a bluish grey colour with underfur of the same general colour, and guard hairs having silver characteristics.

WHITE-MARKED PEARL PLATINUM—Pelts of a bluish grey colour with white markings on the head or shoulders, with underfur of the same general colour, and guard hairs having silver characteristics.

Colour Phases:

DARK, MEDIUM, LIGHT, and EXTRA LIGHT

GRADES:

CANADA SELECT — Pelts of extra good quality, evenly furred, of reasonably clear colour and character and with only minor weaknesses permitted.

CANADA GRADE A—Pelts of good quality, character and colour, with guard hair and underfur blending in colour.

CANADA GRADE B — Pelts of average quality and character. They may be slightly off colour.

CANADA GRADE C — Pelts of fair quality, they may be weak furred, somewhat off colour and lacking in character.

CANADA GRADE D — Pelts of poor quality throughout and definitely lacking in character.

REJECT — Pelts of extremely low quality throughout, including culls and samsons.

NOTE — With the exception of "Rejects" all of the above grades shall be classified into sizes as prescribed below:

LARGE — A large pelt should be 34 inches or more in length.

MEDIUM — A medium pelt should be at least 30 inches in length.

SMALL — All pelts below medium size.

All pelts should be measured from the nose to base of tail, and the width should be in proportion to the length.

BLUE FOX

Pelts of a bluish grey colour with underfur of the same general colour.

Colour Phases:

DARK, MEDIUM, PALE, and EXTRA PALE.

GRADES:

CANADA SELECT— Pelts of extra good quality, prime, evenly furred, of clear colour and character with good top fur. Complete finish of the pelt shall be given proper consideration.

CANADA GRADE A — Pelts of good quality and character, well furred and clear colour throughout, with good top fur and reasonably free of rubbed rumps.

CANADA GRADE B — Pelts of average quality and character, evenly furred and fairly clear colour.

CANADA GRADE C — Pelts of fair quality. They may be open, weak furred, somewhat off colour and lacking in character.

CANADA GRADE D — Pelts of low quality and definitely lacking in character.

HIDE GRADES

The following classifications for the purchasing of hides have been established by dealers.

CATTLE HIDES

PACKER HIDES — Are purchased from abattoirs basis No. 1 and No. 2 grades.

COUNTRY HIDES — Are purchased from country butchers and farmers basis No. 1, No. 2 and No. 3 grades.

BRANDS — Are from branded animals and are purchased on the basis of No. 1 and No. 2 grades.

KOSHERS — Are discounted $\frac{1}{2}$ cent per pound since the throat is cut cross-wise partially destroying the pattern.

GRUBBY — Are badly damaged by warble flies.

Grade No. 1 — Shall be free of cuts, wire or horn scratches, warts, or other bad damage, and be of good pattern.

Grade No. 2—May have deep scores or cuts, some damage to the grain through wire or horn scratches, and may be slightly off pattern.

Grade No. 3 May have bad cuts, bad warble damage, be badly dragged, hairslipped, poorly patterned, or poorly slated. They are discounted 50%.

Hides are selected according to the following weights:

Packer Hides

- Heavy — 58 lbs. and over.
- Bufs — 43 to 57 lbs.
- Extremes — 23 to 42 lbs.
- Kipskins — 15 to 22 lbs.
- Calfskins — 15 lbs. and under.

Country Hides

Selected for weights in the case of Kipskins and Calfskins. Hides weighing over 60 lbs. are discounted.

HORSE HIDES

RENDERER'S TAKE-OFF — Are purchased from renderers.

COUNTRY TAKE-OFF — Are purchased from farmers.

Grade No. 1 — Shall be free of cuts and damage to grain, must contain full heads and shanks, and be of good pattern.

No. 2 — May have 5 cuts, must be free of damage to grain, but may be off pattern.

No. 3 — May have more than 5 cuts, damage to grain, be hairslipped, and badly off pattern.

HAY AND STRAW

Official standards of quality and condition for Timothy and Clover Hay, Alfalfa and Alfalfa Mixed Hay, Grass Hay, Mixed Hay and Straw, have been established by the Canada Department of Agriculture.

Copies of the "Hay and Straw Inspection Act —with Official Hay Standards" may be obtained free from any district office of the Plant Products Division, Winnipeg, Saskatoon, or Edmonton; or from the Canada Department of Agriculture, Ottawa.

TABLE OF FREIGHT RATES

Freight charges per bushel on different grains shown from all stations with given freight rates per 100 pounds. Ask our agent for freight rate from your shipping point.

Rate per 100 Lbs.	Rate per Bushel on				Flax	
	Wheat	Oats	Barley	Rye	Rate per 100 lbs.	Bushel
Cents	Cents	Cents	Cents	Cents	Cents	Cents
4	2.40	1.36	1.92	2.24	5½	3.08
5	3.00	1.70	2.40	2.80	6½	3.64
6	3.60	2.04	2.88	3.36	7½	4.20
7	4.20	2.38	3.36	3.92	8½	4.76
8	4.80	2.72	3.84	4.48	9½	5.32
9	5.40	3.06	4.32	5.04	10½	5.88
10	6.00	3.40	4.80	5.60	11½	6.44
11	6.60	3.74	5.28	6.16	12½	7.00
12	7.20	4.08	5.76	6.72	13½	7.56
13	7.80	4.42	6.24	7.28	14½	8.12
14	8.40	4.76	6.72	7.84	15½	8.68
15	9.00	5.10	7.20	8.40	16½	9.24
16	9.60	5.44	7.68	8.96	17½	9.80
17	10.20	5.78	8.16	9.52	18½	10.36
18	10.80	6.12	8.64	10.08	19½	10.92
19	11.40	6.46	9.12	10.64	20½	11.48
20	12.00	6.80	9.60	11.20	21½	12.04
21	12.60	7.14	10.08	11.76	22½	12.60
22	13.20	7.48	10.56	12.32	23½	13.16
23	13.80	7.82	11.04	12.88	24½	13.72
24	14.40	8.16	11.52	13.44	25½	14.28
25	15.00	8.50	12.00	14.00	26½	14.84
26	15.60	8.84	12.48	14.56	27½	15.40
27	16.20	9.18	12.96	15.12	28½	15.96
28	16.80	9.52	13.44	15.68	29½	16.52
29	17.40	9.86	13.92	16.24	30½	17.08
30	18.00	10.20	14.40	16.80	31½	17.64

WEIGHTS OF GRADES—Minimum

Grades are not determined by weight alone. Quality must be considered. The following are the minimum weights for each grade:—

WHEAT	lbs.
1 Hard	62
1 Northern	60
2 Northern	58
3 Northern	57
4 Northern	56
4 Special	53
*No. 5	53
*No. 6	51

GARNET WHEAT	
No. 1 C.W. Garnet	60
No. 2 C.W. Garnet	58
No. 3 C.W. Garnet	57

WHITE SPRING AND SOFT WHITE SPRING	
No. 1 C.W.	60
No. 2 C.W.	58
No. 3 C.W.	57
No. 4 C.W.	54

AMBER DURUM	
1 C.W. Amber Durum	62
2 C.W. Amber Durum	60
3 C.W. Amber Durum	58
Extra 4 C.W. Amber Durum	58
4 C.W. Amber Durum	56
5 C.W. Amber Durum	54
6 C.W. Amber Durum	51

WINTER WHEAT	lbs.
1 Alberta Red Winter	62
2 Alberta Winter	60
3 Alberta Winter	57
4 Alberta Winter	56

BUCKWHEAT	
No. 1 C.W.	50
No. 2 C.W.	48
No. 3 C.W.	45
No. 4 C.W.	42

FLAX SEED	lbs.
No. 1 C.W.	51
No. 2 C.W.	50
No. 3 C.W.	47
No. 4 C.W.	44

BARLEY	
1 C.W. Six-Row	50
2 C.W. Six-Row	48
3 C.W. Six-Row	46
1 C.W. Two-Row	51
2 C.W. Two-Row	49
3 C.W. Two-Row	47
1 Feed	46
2 Feed	43

RYE	
1 C.W.	58
2 C.W.	56
3 C.W.	54

RAPESEED	
No. 1 Canada	52
No. 2 Canada	50
No. 3 Canada	48

OATS	
1 C.W.	38
2 C.W.	36
Extra 3 C.W.	40
3 C.W.	34
Extra 1 Feed	38
No. 1 Feed	34
No. 2 Feed	28

CORN	
Yellow, White, Mixed	
1 C.W.	56
2 C.W.	54
3 C.W.	52
4 C.W.	50
5 C.W.	47

*Subject to ruling of the Western Committee on Grain Standards.

WEIGHTS OF GRADES—Minimum—Continued

SOYBEANS

Yellow, Green, Brown,		
Black, Mixed	lbs.	
No. 1 Canada	58	
No. 2 Canada	56	
No. 3 Canada	54	
No. 4 Canada	51	
No. 5 Canada	48	

SUNFLOWER SEED

No. 1 C.W.	24
No. 2 C.W.	21
No. 3 C.W.	21
No. 1 Mixed C.W.	24
No. 2 Mixed C.W.	21
No. 3 Mixed C.W.	21

PEAS

No. 1 C.W.	62
No. 2 C.W.	60
No. 3 C.W.	58
No. Extra 4 C.W.	58

DOMESTIC MUSTARD

		Oriental
		or
	Yellow	Brown
	lbs.	lbs.
Extra 1 C.W.	58	—
1 C.W.	56	55
2 C.W.	54	54
3 C.W.	52	52
4 C.W.	50	50

STANDARD WEIGHT in contracts for sale and delivery

Barley	48
Beans	60
Buckwheat	48
Corn	56
Flax Seed	56
Millet	48
Oats	34
Peas	60
Rape	50
Rye	56
Speltz	50
Soybeans	60
Sunflower Seed	30
Wheat	60
Mixed Grain, No. 1	60
No. 2	56
No. 3	48
No. 4	34
Mustard Seed	50

LONG MEASURE

12 Inches	1 Foot
3 Feet	1 Yard
5½ Yards	1 Rod
320 Rods	1 Mile
1760 Yards	1 Mile
80 Chains	1 Mile
6 Feet	1 Fathom
69½ Miles	1 Degree
1760 Yds. or 5280 Ft.	1 Mile

AVOIRDUPOIS WEIGHT

16 Drams	1 Ounce
16 Ounces	1 Pound
7000 Grains—16 oz.	1 Pound
100 Pounds	1 Hundred weight Cwt.
2000 Pounds, or 20 Cwt.	1 Ton

SURVEYOR'S MEASURE

7.92 Inches	1 Link
25 Links	1 Rod
100 Links, 4 Rods, or 66 Feet	1 Chain
80 Chains	1 Mile
10 Square Chains	1 Acre
640 Acres	1 Square Mile

SQUARE OR LAND MEASURE

144 Sq. Inches	1 Sq. Foot
9 Sq. Feet	1 Sq. Yard
80½ Sq. Yards	1 Sq. Rod
160 Sq. Rods	1 Acre
640 Acres	1 Sq. Mile

DRY MEASURE

2 Pints	1 Quart
4 Quarts	1 Gallon
2 Gallons	1 Peck
4 Pecks	1 Bushel
36 Bushels	1 Chaldron

MEASURE OF CAPACITY

2 Pints	1 Quart
4 Quarts	1 Gallon
81½ Gallons	1 Barrel
63 Gallons	1 Hogshead

LIQUID MEASURE

6 tbsps.	1 gill
2 gills	1 cup
2 cups	1 pint
2 pints	1 quart
4 quarts	1 Gallon
1 pint	20 fluid ounces

MEMBER COMPANIES

FEDERAL GRAIN LIMITED
PIONEER GRAIN COMPANY, LIMITED
NATIONAL GRAIN COMPANY, LIMITED
N. M. PATERSON & SONS, LIMITED
McCABE GRAIN COMPANY, LIMITED
PARRISH & HEIMBECKER, LIMITED
INTER-OCEAN GRAIN COMPANY, LIMITED
ELLISON MILLING & ELEVATOR COMPANY, LIMITED
SCOTTISH CO-OPERATIVE WHOLESALE SOCIETY, LIMITED
ROBIN HOOD FLOUR MILLS, LIMITED
MIGHTY PEACE GRAIN LIMITED

Additional copies of this booklet may be obtained from any of the above Companies or from The North-West Line Elevators Association, Winnipeg or Calgary.